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THE BACHARACH BLUEBOOK

2011

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A Century of Innovation & A World of Experience

BACHARACH
The Measurable Difference

100 Years

YOUR ONE SOURCE

Serving the HVAC/R Industry

Combustion Analyzers

Leak Detectors

A/C Refrigeration & Maintenance

Fixed Gas Monitors

Safety & Specialty Products

MADE IN THE USA
FOR OVER 100 YEARS

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BACHARACH
The Measurable Difference

Welcome to Bacharach

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A Century of Innovation

...And We're *Just* Getting Started!

THE ONE SOURCE

Established in 1909, Bacharach, Inc. is the world leader in the design, manufacture, and service of advanced equipment to measure and detect gases including instruments that detect, measure and record combustion, refrigerant and environmental gases, temperature, humidity and other air quality and safety parameters.

- The ONE Source serving the HVAC/R industry for:
  - Combustion analyzers
  - Leak detectors (combustible & refrigerant gases)
  - Fixed gas monitors
  - A/C and refrigerant recovery machines, maintenance tools and gauges
  - Safety and specialty products
- Products designed to aid in the installation and servicing of heating, air conditioning & refrigeration equipment
- Instruments designed for residential, commercial and industrial applications
- In-house product development and technical expertise
- Excellent customer support — training, customer service, repairs
- Made in the U.S.A. for over 100 years

LOOK FOR THESE SYMBOLS

The capabilities needed for test and measurement instrumentation vary widely depending on the application and environment. To simplify your selection process, we have placed a symbol (R, C and i) designating the most appropriate application use for the product;

R – **Residential:** Homes, and apartments (furnaces, boilers, hot water heaters, air conditioners, and stoves)

C – **Commercial**: Institutions, office buildings, food storage, and labs (boilers, chillers, refrigeration racks, and indoor air quality)

i – **Industrial:** Manufacturing facilities, and utilities (health and safety monitoring, control processes, and emissions)

Bacharach Bluebook Contents

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WELCOME TO BACHARACH 2
SERVICE / REPAIR 4

COMBUSTION ANALYZERS
Combustion Analyzer Family of Products 5-11
Family Features Chart 12

LEAK DETECTORS
Leak Detector Family of Products 13-19
Family Features Chart 20

A/C, REFRIGERATION & MAINTENANCE
A/C, Refrigeration & Maintenance Family of Products 21-29
Family Features Chart 30

FIXED GAS MONITORS
Gas Leak Monitor Family of Products 31-34

SAFETY & SPECIALTY PRODUCTS
Safety & Specialty Family of Products 35-40
Family Features Chart 41

ACCESSORIES & REPLACEMENT PARTS 42-44
SHIPPING WEIGHTS & DIMENSIONS 45
CUSTOMER SERVICE 46
GLOBAL DISTRIBUTION 47

MADE IN THE USA
FOR OVER 100 YEARS

Bacharach Service / Repair

ERVICE YOU CAN COUNT ON

Factory Calibration, Sensor Replacement, and **Repair Services** are available and provide customers:

- **Faster turnaround time**
- **Free return shipping**
- **Simplified flat rate pricing**

A Return Material Authorization number (RMA #) is required for all service and repair. For additional information go to MyBacharach.com/support.htm, contact Customer Service at 1-800-736-4666 or 724-334-5000 or send an email to: help@MyBacharach.com

BACHARACH SERVICE LOCATIONS

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BACHARACH'S FYRITE® FAMILY OF COMBUSTION ANALYZERS

For the most comprehensive full featured family of combustion analyzers, check out the Fyrite® combustion analyzer products. From simple to sophisticated and from basic to multi-use, Fyrite® products set the performance standard in their class. These instruments provide unique features that will meet the needs of contractors whatever the application.

B-SMART® SENSORS FOR THE FYRITE® INSIGHT® AND PCA®3

B-Smart® Sensors are the newest addition to the Fyrite® Family, providing the customer some major advantages when using the Fyrite® INSIGHT® and PCA®3. This technology allows the user to replace pre-calibrated sensors in the field, thus eliminating the need to send it in for calibration.

The B-Smart® Sensor itself is only part of the equation, select the B-Smart® Calibration program that is right for you... then let us worry about the details. Bacharach will automatically send you the calibrated sensors.

THE B-SMART® ADVANTAGE

Features	+	Advantages	=	Benefits
B-Smart® factory-calibrated sensors sent right to your door		No need to return your instrument for calibration		No downtime
Plug and play sensors		Install the sensors yourself		Save time
Self calibration		No field gas calibration		Save money

Combustion Analyzers

ECA 450

Unlike any other industrial grade combustion efficiency and environmental analyzer on the market today, the ECA 450 conducts accurate combustion and emissions tests to ensure that industrial equipment is burning efficiently and environmental regulations are being met.

- Industrial grade analyzer for both combustion efficiency and emissions analysis
- Generates and prints combustion efficiency and emissions reports
- Supports modular, field replaceable, sensors for O_2, NO, NO_2, SO_2, CO and HC
- Expandable in field - add or change sensors as your requirements change
- Ideal for sampling and monitoring furnaces, boilers and other industrial combustion equipment
- Comes standard in hard case, 12" sample probe assembly with 15' of hose and built-in printer

MEASUREMENT	RANGE
Primary/Ambient Air Temperature	–4° to 999° F (-20 to 537°C)
Stack Temperature	–4° to 2400° F (-20 to 1316°C)
Draft / Differential	-27.7 to +27.7 in. of H_2O
Oxygen (O_2)	0.0 to 20.9%
Carbon Monoxide (CO) (H_2 comp)	0 to 4,000 ppm
Carbon Monoxide (CO) (High Range)*	4,001 to 80,000 ppm
Nitric Oxide (NO)*	0 to 3,500 ppm
Nitrogen Dioxide (NO_2)*	0 to 500 ppm
Sulfur Dioxide (SO_2)*	0 to 4,000 ppm
Combustible Gases (HC)*	0 to 5.00% (application dependent)

SELECTABLE FUELS

Natural Gas, Propane, Coal, Wood, Kerosene, Oil #2, Oil #4, Oil #5, Oil #6, Bagasse

CALCULATED RANGES	RANGE
Combustion Efficiency	0.1 to 100.0%
Excess Air	0 to 250%
Carbon Dioxide (dry basis)	0 to fuel dependent maximum
NO_x (NO_x = NO + NO_2)	0 to 4,000 ppm
NO, referenced to % O_2	0 to 17,000 ppm
CO referenced to % O_2	0 to 99,999 ppm
NO referenced to % O_2	0 to 14,900 ppm
NO_2 referenced to % O_2	0 to 2,100 ppm
SO_2 referenced to % O_2	0 to 17,000 ppm

** Optional*

Two pumps are included. The first pump supplies gas sample to the sensors. The second pump supplies fresh air to purge the low range CO sensor when CO levels exceed 4000 ppm. Probe includes a standard probe and hose assembly equipped with a water trap, particulate filter, probe stop, 15 feet of hose and 12-inch probe tube.

OTHER SPECIFICATIONS	
Power	Universal AC adapter and an internal battery pack. Adapter will accept input voltages from 100 to 240V. Fully charged battery pack provides a minimum of 8 hrs of operation
Size	13.5" H x 18.5" W x 9" D (34.3 cm x 47 cm x 22.9 cm)
Weight	25 lbs (11.34 kg)
Memory	Stores over 1000 test records
Display	160 x 160 (2.5 in. x 2.5 in.) Graphic Liquid Crystal Display
Warranty	1 year (does not include probe)

ORDERING INFORMATION

0024-7221	ECA 450 Base Unit (O_2, CO, Ts, Ta, DP)
0024-8400	ECA 450 with NO / NO_2 sensors and compact sample conditioner
0024-8401	ECA 450 with NO, NO_2 and SO_2 sensors and compact sample conditioner

OPTIONAL ACCESSORIES

0024-3024	24" Probe Assembly
0024-3025	36" Probe Assembly
0024-7224	Compact Sample Conditioner/Probe
0024-3035	24" High Temperature Probe Assembly
0024-3036	36" High Temperature Probe Assembly
0024-3037	48" High Temperature Probe Assembly
0024-1124	20 Ft. Hose Extension with sample, draft and thermocouple lines
0024-1172	Water Trap/Filter Assembly (for Probe Assemblies)
0007-1644	Replacement Filters for Water Trap (pkg of 3)
0104-4027	Serial Cable DB 9M to DB 9F
0024-0980	Printer Paper (5 rolls)

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PCA® 3

Bacharach's all new PCA®3 is the definitive combustion and emissions analyzer that enables fast and accurate measurement for on-demand or semi-continuous sampling of light industrial, institutional, commercial and residential furnaces, boilers and appliances. The PCA®3 uses unique B-Smart® sensor technology to save downtime and calibration costs.

- Uses up to 6 electrochemical sensors – field-upgradable
- Large full color graphic display with bright backlighting, zoom display and dimming mode
- Measures O_2, stack temperature, primary/ambient temperature and pressure/draft
- Measures CO (hydrogen compensated) from 0–4,000 ppm
- Provides both CO measurement capability (for safety) and calculation of combustion efficiency
- Selectable fuels include natural gas, kerosene, propane, coal, #2, #4 and #6 fuel oil, wood, bagasse and digester gas
- Includes hard carrying case, rubber boot, 12" probe assembly, spare filters, 4 "AA" batteries, "smart" sensors (as ordered), USB cable and PC software

PCA® 3 with Reporting Package Kits

Combine the PCA®3 with the IrDA printer and you have the perfect Reporting Package tool. All reporting package kits contain all items included with the instrument, plus the IrDA printer, USB cable and software.

MEASUREMENT RANGES

Primary/Ambient Air Temperature	–4° to 999° F (-20 to 537°C)
Stack Temperature	–4° to 2192° F (-20 to 1200°C)
Oxygen (O_2)	0.1 to 20.9%
Carbon Monoxide (CO) (H_2 comp)	0 to 4,000 ppm
Carbon Monoxide (CO) (High Range)	4,001 to 20,000 ppm
Nitric Oxide	0 to 3,000 ppm
Nitrogen Dioxide	0 to 500 ppm
Sulfur Dioxide	0 to 5,000 ppm
Draft / Differential Pressure	–72 to +72 INWC

CALCULATED RANGES

Combustion Efficiency	0.1 to 100%
Excess Air	1.0 to 250%
Carbon Dioxide	0 to fuel dependent maximum
NO_x (NO_x = NO + NO_2)	0 to 3,500 ppm
NO_x referenced to % O_2	0 to 9,999 ppm
CO referenced to % O_2	0 to 9,999 ppm
NO referenced to % O_2	0 to 9,999 ppm
NO_2 referenced to % O_2	0 to 9,999 ppm
SO_2 referenced to % O_2	0 to 9,999 ppm
CO/CO_2 referenced to % O_2	0 to 9,999 ppm

SELECTABLE FUELS

Natural Gas, Propane, Coal, Wood, Kerosene, Oil #2, Oil #4, Oil #6, Bagasse and Digester Gas

OTHER SPECIFICATIONS

Power	Four disposable AA alkaline batteries providing 10 hours of continuous operation. Optional universal AC Power Adapter
Size	9" h x 3" w x 2.5" d (22.9 cm x 7.6 cm x 6.3 cm)
Weight	1.4 lbs w/batteries (0.6 kg)
Memory	500 complete combustion test records
Logged Memory	500 complete logged combustion test records
Warranty	2 years on instrument; 1 year on O_2 sensor

ORDERING INFORMATION

N.AM P/N*	EU P/N**	DESCRIPTION
0024-8440	0024-8460	PCA®3 225 (O_2, CO)
0024-8441	0024-8461	PCA®3 235 (O_2, CO, NO)
0024-8442	0024-8462	PCA®3 245 (O_2, CO, CO high)
0024-8443	0024-8463	PCA®3 255 (O_2, CO, SO_2)
0024-8444	0024-8464	PCA®3 265 (O_2, CO, NO, NO_2)
0024-8445	0024-8465	PCA®3 275 (O_2, CO, NO, SO_2)
0024-8446	0024-8466	PCA®3 285 (O_2, CO, NO, CO high)
0024-8447	0024-8467	PCA®3 225 Kit (O_2, CO, printer)
0024-8448	0024-8468	PCA®3 235 Kit (O_2, CO, NO, printer)
0024-8449	0024-8469	PCA®3 245 Kit (O_2, CO, CO high, printer)
0024-8450	0024-8470	PCA®3 255 Kit (O_2, CO, SO_2, printer)
0024-8451	0024-8471	PCA®3 265 Kit (O_2, CO, NO, NO_2, printer)
0024-8452	0024-8472	PCA®3 275 Kit (O_2, CO, NO, SO_2, printer)
0024-8453	0024-8473	PCA®3 285 Kit (O_2, CO, NO, CO high, printer)

OPTIONAL ACCESSORIES

0024-1400	IrDA Printer w/ Disposable Batteries (included w/ Reporting Pkg. Kit)
0024-1254	Universal AC Power Adapter (110-240V)
0024-7224	Compact Sample Conditioner***
0024-3004	Replacement Probe Assembly (North American)
0024-3053	Replacement Probe Assembly (European)
0024-1124	20 ft Hose Extension with sample, draft and thermocouple lines
0007-1644	Replacement Filter Element (pkg. of 3)
0021-7006	True Spot® Smoke Tester

**U.S.-based calculations*
***European-based calculations*
****Sample Conditioner is recommended when measuring NO_2 and SO_2 to ensure highest degree of measurement accuracy.*

Combustion Analyzers

Fyrite® INSIGHT®

The Fyrite® INSIGHT® is the newest Bacharach Combustion Analyzer that redefines what a combustion analyzer should be. This lightweight, hand-held analyzer is five tools in one. An INSIGHT® will:

- Perform combustion efficiency testing for 8 different fuels
- Test CO ambient conditions
- Measure CO in flue and calculate CO air free
- Serve as a dual channel digital thermometer (Up to 999°F)
- Function as a digital manometer (draft, gas pressure, ESP, up to 100 INWC)

INSIGHT® employs Bacharach's new B-Smart® CO Sensor technology that eliminates the need to send in the instrument for calibration, saving the user time and most importantly: money.

Other major features include user diagnostics, LCD and PC-based software for information and communication needs.

- Five Tools in ONE!
- Self calibration and easy access to sensors
- User diagnostics
- O_2 sensor life indication
- Calibration reminders
- Graphic LCD display
- Customize with your company logo
- Includes hard carrying case, rubber boot, probe, spare filter, 4 "AA" batteries and instructional DVD

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Fyrite® INSIGHT® Reporting Package Kit

The INSIGHT® Reporting Package Kits contains all items included with the instrument, plus the IrDA printer, USB cable and software. It's a perfect tool for contractors.

B-Smart® Carbon Monoxide (CO) Sensors are the newest addition to the Fyrite® Family, providing the customer some major advantages when using the Fyrite® INSIGHT®. This technology allows the user to replace pre-calibrated sensors in the field, thus eliminating the need to send it in for calibration.

The B-Smart® Sensor itself is only part of the equation, select the B-Smart® Calibration program that is right for you... then let us worry about the details. Bacharach will automatically send you the calibrated sensor. For more information go to www.MyBacharach.com/bsmart.

MEASUREMENT RANGES	RANGE
Combustion Air/Ambient Air Temperature	-4 to 600˚F (-20 to 316˚C)
Flue Gas Temperature	-4 to 1200˚F (-20 to 649˚C)
Oxygen (O_2)	0.0 to 20.9%
Carbon Monoxide (CO)	0 to 2,000 ppm
Draft / Differential Pressure	-100 to +100 INWC
CALCULATED RANGES	**RANGE**
Combustion Efficiency	0.1 to 100%
Carbon Dioxide	0.1 to a fuel dependent max. value in percent
Carbon Monoxide (air free)	0 to 9,999 ppm
Excess Air	0 to 250%

SELECTABLE FUELS

Natural Gas, Propane, Coal, Wood, Kerosene,Oil #2, Oil #4, Oil #6

OTHER SPECIFICATIONS	
Power	Four disposable AA alkaline batteries (included)
Battery Life	Minimum of 20 hours, typical
Size	8.0"H x 3.6"W x 2.3"D (51.61cm x 23.22 cm x 14.84 cm)
Weight	16 oz. with batteries (0.45 kg)
Warranty	2 years on instrument; 1 year on O_2 sensor

ORDERING INFORMATION	
0024-8250	Fyrite® INSIGHT®
0024-8252	Fyrite® INSIGHT® - European Model*
0024-8251	Fyrite® INSIGHT® w/ Reporting Pkg Kit
0024-8253	Fyrite® INSIGHT® Kit - European Model*

OPTIONAL ACCESSORIES	
0024-1492	Fyrite® INSIGHT® Reporting Kit
0024-1400	IrDA Printer w/ Disposable Batteries (included w/ Reporting Pkg. Kit)
0024-1310	Printer Paper (5 rolls)
0024-1254	Universal AC Power Adapter
0104-1797	Thermocouple 10 ft (combustion at temp.)
0104-1798	Thermocouple 1in (ambient air temp)
0024-8242	Differential Pressure & Temperature Kit
0024-1505	Optional NO_X Filter
0007-1644	Replacement Filter Element (pkg. of 3)

**European-based calculations*

Fyrite® Tech

Based on the same technology as the Fyrite® commercial units, the Fyrite® Tech is an affordable residential combustion analyzer that reduces service call time by providing accurate, electronic test results instantly. The Fyrite® Tech analyzers are easy to use: simply turn the unit on, select the fuel type (natural gas, oil, propane and kerosene), and insert the probe. It's that easy.

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- Quick payback - The Fyrite® Tech reduces service call time by providing accurate, electronic test results instantly.
- Accurate operation - Tactile feedback from the instrument's keypad assures that the appropriate key has been pressed.
- Ergonomically designed - The instrument is lightweight and fits in the palm of your hand, making it easy to handle.
- Long battery life - Four alkaline batteries typically offer up to 18 hours of continuous operation with an automatic "power off" feature that saves energy.
- Low battery symbol indicator
- Purchase protection - Our two-year warranty on each analyzer and its sensors ensures worry-free operation.
- Measures O_2 (0-20.9%) and CO (0-2,000 ppm), stack temperature (0 to 999^{0}F) and ambient temperature (32 to 212^{0}F)
- Calculates combustion efficiency, excess air, CO_2 and CO air free

Fyrite® Tech 60

- Includes soft carrying case, 4 AA batteries, probe and instruction manual

Fyrite® Tech 60 Kit

- Includes hard carrying case, rubber boot, 4 AA batteries, probe and instruction manual - with or without IrDA printer

Fyrite® Starter Tech Kit

- Includes Fyrite® Tech 60 , rubber boot, instruction manual, Driftrite® pocket gauge, True Spot® test kit and hard carrying case to fit it all

MEASUREMENT RANGES	RANGE
Ambient Air Temperature	32 to 212°F (0 to 100°C)
Flue Gas Temperature	0 to 999°F (-18 to 537°C)
Oxygen (O_2)	0.0 to 20.9%
Carbon Monoxide (CO)	0 to 2,000 ppm
CALCULATED RANGES	**RANGE**
Combustion Efficiency	0.1 to 99.9%
Carbon Dioxide (CO_2)	0.1 to a fuel dependent max. value in percent
Carbon Monoxide (air free)	0 to 9,999 ppm
Excess Air	0 to 400%

SELECTABLE FUELS

Natural Gas (F1), Oil #2 (F2), Propane (F3), Kerosene (F4)

OTHER SPECIFICATIONS	
Power	Four disposable AA alkaline batteries (included)
Battery Life	Up to 18 hours of continuous runtime, typical
Size	7.5"H x 3.1"W x 2.1"D (48.39 cm x 20 cm x 13.55 cm)
Weight	16 oz. with batteries (0.45 kg)
Warranty	2 years

ORDERING INFORMATION	
0024-8217	Fyrite® Tech 60
0024-8266	Fyrite® Tech 60 European Model*
0024-8226	Fyrite ®Tech 60 Kit (no printer)
0024-8326	Fyrite ®Tech 60 Kit (with printer)
0024-8227	Fyrite® Tech 60 Starter Kit

OPTIONAL ACCESSORIES	
0024-1400	IrDA Printer w/ Disposable Batteries
0024-1310	Printer Paper (5 rolls)
0024-1127	Protective Boot with Magnet
0024-0865	Hard Carrying Case
0019-7111	Angled Probe & Hose Assembly w/sample & thermocouple lines
0019-3265	Water Trap/ Filter Assembly (for Probe Assembly)
0007-1644	Replacement Filters for Water Trap (package of 3)
0024-7059	Calibration Kit (regulator and tubing only)
0051-1994	Calibration Gas (100 ppm CO)

**European based calculations*

Combustion Analyzers

Fyrite® Classic

The Fyrite® Classic series includes fast, easy to use instruments for measuring carbon dioxide or oxygen. The units, while looking very similar, differ in construction and absorbing fluid. Each model is suitable for only the particular gas and measurement range for which it was manufactured. Accuracy of all Fyrite® Classic products is ±0.5%.

KEY FYRITE® CLASSIC FEATURES INCLUDE:

- Broad measurement range
- Capable of being exposed to ambient temperatures from -30 to +150°F
- Withstands measurement gas temperatures up to 850°F

MEASUREMENT CAPABILITIES

PART NUMBER	CO_2	O_2	APPLICATIONS
0010-5000 0010-5001*	0-20%	NA	Flue gas combustion tests and CO_2 tests of heat treating atmospheres
0010-5020 0010-5021*	0-20%	0-21%	All of the applications aove plus; oxygen deficiency testing, O_2 concentrations in hydrogen cooled generators and oil sealed inert gas transformers
0010-5053 0010-5083*	0-7.6%	NA	CO_2 tests of controlled atmospheres in fruit, vegetable, meat storage rooms, and incubator monitoring
0010-5054 0010-5084*	NA	0-7.6%	Oxygen determination in flammable gases; oxygen tests to check inertness of atmosphere in silos, fuel tanks, etc.
0010-5011 0010-5012*	NA	0-21%	Flue gas combustion tests, oxygen deficiency test. Checking oxygen concentrations in hydrogen cooled generators and oil sealed inert gas transformers
0010-5032 0010-5033*	0-60%	NA	Checking CO_2 in inert gas blankets in tankers and barges carrying gasoline and other combustibles; CO_2 tests on lime kilns, checking CO_2 in sewage plant digesters

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Fyrite® Classic Oil Kit

0010-5022 0010-5150*	20%	NA	Includes: CO_2 indicator, True Spot Smoke Tester, Oil Burner Smoke Scale, Fire Efficiency Finder, Tempoint Dial Thermometer, MZF Draft Gauge and hard carrying case

** Export Kit (shipped without fluid)*

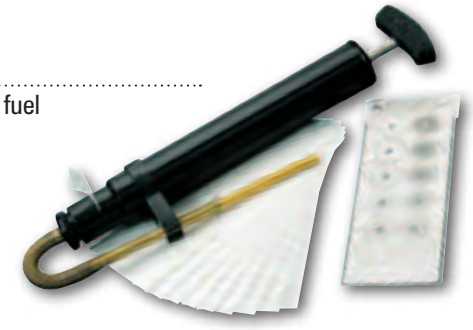
OPTIONAL ACCESSORIES

0010-5057	Refill fluid CO_2 (20% & 60%) – 3 bottles
0010-5100	Refill fluid CO_2 (7%) – 3 bottles
0010-5060	Refill fluid O_2 (21% & 60%) – 3 bottles
0010-5103	Refill fluid O_2 (7%) – 3 bottles

Combustion Tools

True Spot® Smoke Test Kit

- Evaluates smoke density in the flue gases from distillate fuel
- Accurate smoke readings take less than a minute
- Standard in the industry



0021-7006	True Spot® Smoke Test Kit
0021-7012	True Spot® Test Pump
0021-0018	True Spot® Smoke Scale
0021-0040	True Spot® Lubricant
0021-0019	True Spot® Filter Paper Sheets (40 strips)
0021-0020	True Spot® Scale and Filter Paper

Tempoint®

0012-7014	6 in., 200°F to 1000°F
0021-7018	12 in., 200°F to 1000°F

Draftrite® Pocket Gauge

- This pocket size draft instrument is suitable for checking flue pipe, chimneys, smoke hoods and oil burner firing rates

0013-3000	Draftrite® +0.10 to 0 to -0.14" WC
0013-3001	Draftrite® +0.05 to 0 to -0.25" WC
0013-5010	Draftrite® Tube Set

Note: All models supplied with two sections of draft tube and Leatherette Case 0013-0003.

MZF Draft Gauge

- Requires no liquids or leveling
- Ideal for use in applications such as residential, commercial and industrial heating plants and for furnace draft pressure drop across filters

0013-7018	MZF Draft +1.0 to 0 to -5 mm WC
0013-7019	MZF Draft +0.05 to 0 to -0.25" WC
0013-7021	MZF Draft +0.05 to 0 to -1.0" WC

Note: All models supplied with 5" draft tube and 9' of rubber tubing.

Portable Manometer

A valuable instrument for measuring and adjusting the inlet and manifold pressure for gas heating equipment and appliances.

- The Bacharach Manometer is designed for accuracy, readability, and portability
- Also used to determine filter resistance, fan efficiency, air velocity, and static pressures

0017-7000	Portable Manometer 0-15 INWC and 0-8.5 oz. per sq. in
0017-7002	Portable Manometer 0-15 INWC and 0-38 cm WC
0017-0025	Portable Manometer Replacement fluid

Combustion Analyzers

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Fyrite® Family of Products	Fyrite® Classic	Fyrite® Tech	Fyrite® INSIGHT®	PCA® 3	ECA 450
WHAT THEY DO	R C i	R	R C	C i	i
Combustion Efficiency Analyzer	✓	✓	✓	✓	✓
Room Air CO Test Instrument		✓	✓	✓	✓
Flue Gas CO Test Instrument		✓	✓	✓	✓
Dual Channel Digital Thermometer			✓	✓	✓
Digital Manometer			✓	✓	✓
Emissions Compliance Testing (NO, NO_2, SO_2)				✓	✓
WHAT THEY MEASURE					
Flue Gas Temperature		✓	✓	✓	✓
Combustion Air/Ambient Air Temperature		✓	✓	✓	✓
Pressure (Draft, Gas Pressure, Static Pressure)			✓	✓	✓
Oxygen Levels (O_2)	✓	✓	✓	✓	✓
Carbon Monoxide (CO)		✓	✓	✓	✓
Carbon Monoxide (CO) High				✓	✓
Carbon Dioxide (CO_2)	✓				
Nitric Oxide (NO)				✓	✓
Nitrogen Dioxide (NO_2)				✓	✓
Sulfur Dioxide (SO_2)				✓	✓
Hydrocarbons (HC)					✓
WHAT THEY CALCULATE					
Combustion Efficiency	w/ Slide Ruler	✓	✓	✓	✓
Excess Air		✓	✓	✓	✓
Carbon Monoxide Air Free (CO)		✓	✓	✓	✓
Carbon Dioxide (CO_2)		✓	✓	✓	✓
WHAT THEY TEST					
Oil - #2	w/ Slide Ruler	✓	✓	✓	✓
Oil - #4	w/ Slide Ruler		✓	✓	✓
Oil - #6	w/ Slide Ruler	✓	✓	✓	✓
Natural Gas. Propane, Kerosene	w/ Slide Ruler	✓	✓	✓	✓
Coal	w/ Slide Ruler		✓	✓	✓
Bagasse				✓	✓
Digester Gas				✓	
Wood				✓	
WHAT THEY FEATURE					
B-Smart® Sensors			✓	✓	
Field Replaceable Smart Sensors			✓	✓	
Graphic LCD Display			✓	✓ (color)	
Back Light		✓	✓	✓	✓
Zoom			✓	✓	
Data Logging			✓	✓	✓
Printing Capability		✓	✓	✓	✓
PC Download Capability			✓	✓	✓
Sensor Life Indicator			✓	✓	
Calibration Reminder			✓	✓	
Automatic CO Over Range Protection			✓	✓	✓
Warranty	1-year	2-years	2-years	2-years	2-years
WHAT CAN BE ADDED					
True Spot® Smoke Test Kit	✓	✓	✓	✓	✓
IrDA Printer/Built-In Printer		✓	✓	✓	✓
Compact Sample Conditioner for Emission Compliance Testing				✓	✓
CERTIFICATIONS					
EN50379		✓	✓	✓	
CE Mark		✓	✓	✓	✓

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BACHARACH'S LEAK DETECTOR FAMILY OF PRODUCTS

Bacharach manufacturers a complete line of leak detectors for combustible and refrigerant gases and one universal leak detector, the Informant® 2, that measures both types. Bacharach handheld portable units offer a wide range of visual and audible indicators, fast warm up and long battery life. Models are also available that are certified intrinsically safe for use in Class I, Division 1 Groups A,B, C and D hazardous locations. Designed for sensitivity and fast response, there is a Bacharach unit available to meet most any leak detection requirement.

Leak Detectors

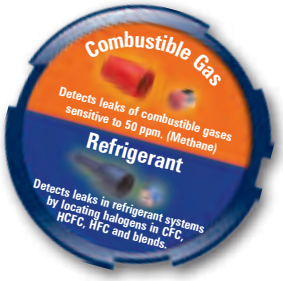
Bacharach Tru Pointe Ultrasonic Leak Detectors

Informant® 2

The Informant® 2 is the only universal leak detector that can detect both combustible and refrigerant gases and is perfect for residential and commercial heating and cooling contractors.

The Bacharach Advantage:

- One-of-a-kind dual purpose refrigerant and combustible gas leak detector
- Automatically leads you directly to leak source
- Can swap sensor tips within seconds
- Sensitivity levels are automatically adjusted
- Refrigerant sensor tip is finely tapered to gain access to hard to reach areas


Combustible Gas
Detects leaks of combustible gases sensitive to 50 ppm. (Methane)
Refrigerant
Detects leaks in refrigerant systems by locating halogens in CFC, HCFC, HFC and blends.

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Informant®2 Contractor Kit

- Instrument comes with refrigerant and combustible gas sensors, color-coded probe tips, instruction manual, protective rubber boot, 4"AA" batteries, 5 filters and hard carrying case

Informant®2 Deluxe Kits

- Refrigerant and combustible leak detector
- Includes refrigerant and combustion sensors, color-coded probe tips, protective rubber boot, flashlight, 6"AA" batteries, 5 filters and hard carrying case

SENSING TECHNOLOGY	
Refrigerant Sensor	Heated Diode - U.S. Patent No. 5,932,176
Combustible Sensor	Patented semiconductor type. Five year typical life. Plug-in replacement
GASES DETECTED	
Refrigerants	All CFC, HCFC and HFC refrigerants including: R-12, R-22, R-123. R-134a and blends R-404A, R-408A, R-409A and R-410A (i.e., any refrigerant containing Chlorine, Fluorine or Bromine gas)
Combustible Gases	All combustible gases and vapors 0 to 400%
RESPONSE TIME	
Refrigerants and Combustible Gases	Instantaneous
ALARM SENSITIVITY	
Refrigerants	Less than 0.25 oz/yr of R-134a (hardest to detect refrigerant)
Combustible Gases	Minimum 50ppm (Methane)
ALARM TYPES	
Audible, dual visual LED's and flashing probe tip	
OTHER SPECIFICATIONS	
Power	Four disposable AA alkaline batteries (included)
Battery Life	4-5 hours, under typical intermittent operation
Size	1.75"W x 9.6"L x 2.25"H (4.45 cm x 24.4 cm x 5.7 cm)
Weight	0.86 lbs. (0.39 kg) with batteries
Warranty	One year, including sensors
CERTIFICATIONS	
Refrigerants	SAE J1627; CE Mark
Combustible Gases	UL 913, intrinsically safe for use in Class 1, Division 1, Group D hazardous areas; CE Mark

ORDERING INFORMATION	
0019-8038	Informant® 2 Contractor Kit
0019-8045	Informant® 2 Dual Sensor Deluxe Kit
0019-8040	Informant® 2 Refrigerant-only Kit (No Boot)
0019-8043	Informant® 2 Refrigerant-only Deluxe Kit
0019-8041	Informant® 2 Combustible Gas-only Kit (No Boot)
0019-8044	Informant® 2 Combustible Gas-only Deluxe Kit
OPTIONAL ACCESSORIES	
0019-8037	Deluxe Upgrade Kit (upgrade regular kits with rubber boot, MagLite® flashlight, 2 "AA" batteries and hard carrying case
0019-0499	Replacement Combustible Sensor
0019-0510	Replacement Refrigerant Sensor
0019-0509	Replacement Filters (pkg of 5)
0019-0497	Protective Rubber Boot
0006-9457	MagLite® flashlight

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Leakator® 10

0019-7051
- Combustible gas leak detector
- Includes carrying case, gas sensor, flexible probe and instruction manual
- Visual 10 LED display
- Audible tick rate indicator
- Adjustable sensitivity
- 30 hour battery life
- UL 913 Intrinsically Safe for Class I, Division 1, Groups A, B, C and D hazardous locations; CE-Mark

0019-7063
- Leakator®10 ETO for detection of Ethylene Oxide

OPTIONAL ACCESSORIES

0051-2529 Optional Earphone

Leakator® Jr.

0019-7075
- Combustible gas detector
- Includes sensor, soft case and batteries
- Visual On/Off LED display
- Audible tick rate indication
- Quick, 60 second warm up time
- Dual level sensitivity settings (20 and 50 ppm)
- UL 913 Intrinsically Safe for Class I, Division 1, Groups A, B, C and D hazardous locations; CE-Mark

Tru Pointe®

0019-8106
- Refrigerant gas leak detector at an affordable price for the budget conscious customer
- Instantly responsive to all refrigerants
- Includes hard carrying case and batteries
- Audible and visual alarms
- 10 second warm up
- SAE J1627; CE-Mark

Tru Pointe® Ultra & Tru Pointe® Ultra HD

Bacharach's Tru Pointe® Ultra is a compact ultrasonic leak detector that uses patented technology to detect leaks in air conditioning and refrigeration systems. The Tru Pointe® Ultra is the world's first pocket-size electronic instrument that can simultaneously detect the vacuum and high pressure leaks that occur in HVAC/R systems. The Tru Pointe® Ultra guides the user to a leak by quantifying the intensity of the ultrasound and converting it to a sound the user can hear easily through headphones.

The Bacharach Advantage:

- Not affected by wind or the presence of other gases or high concentrations
- Ten-step LED bar graph shows signal strength
- On-the-fly sensitivity adjustment aids in locating leaks quickly
- True sound reproduction ensures fast recognition of leaks
- Finds small leaks instantly

Headset Options - Choice of compact, foldable headset or high-quality stereo headset; choose Tru Pointe® Ultra or Tru Pointe® Ultra HD.

SoundBlaster® - Ultrasonic Sound Generator. Artificially pressurizes rooms, tanks, enclosures with sound that the Tru Pointe® Ultra can detect thus locating where they leak air, water or other fluids or gases.

Touch Probe - Helps convert sounds within valves or solids to airborne sound for the Tru Pointe® Ultra to detect. (Patented).

ELECTRICAL SPECIFICATIONS

Airborne Sensor Sensitivity	-80dB/v-μbar
Ultrasound Convertor Type	Analog Controlled Heterodyne
Frequency response, Airborne	34kHz to 42kHz
Heterodyne Filter	4kHz
Heterodyne Oscillator	Analog
Controls	1 button
Sensitivity Control	Continually Variable Slide
Output, Audio	0Hz to 4kHz
Output, Visual	10 Segment Bar Graph
Battery Type	9 Volt
Run Time	80-120 hrs

MECHANICAL SPECIFICATIONS

Size	5.5" x 2.4" x 0.875" (14 cm x 61 mm x 22.22 cm)
Weight	0.3 lb (138gr) Includes Battery
Audio Connector	3.5mm stereo
Warranty	1 year

ORDERING INFORMATION

0028-8000	Tru Pointe® Ultra Leak Detector Kit w/folding headset
0028-8010	Tru Pointe® Ultra Leak Detector Kit w/folding headset & Soundblaster®
0028-8001	Tru Pointe® Ultra HD Leak Detector Kit w/stereo headphones
0028-8011	Tru Pointe® Ultra HD Leak Detector Kit w/stereo headphones & Soundblaster®
0028-8006	Soundblaster® Ultrasonic Sound Generator

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Tru Pointe® 1100 Ultrasonic Leak Detector Kit

The Tru Pointe® 1100 is a state-of-the-art digital ultrasonic inspection system for leak detection, mechanical inspection and troubleshooting. It accurately detects ultrasounds generated by leaks and pinpoints them at the speed of sound. It detects airborne leaks or electrical arcing in the frequency band of 34 kHz to 42 kHz and 16 kHz to 24 kHz for internal leaks or bearing wear using the patented internal Touch Probe sensor.

- Unaffected by the presence of other gases or sounds in the test area
- Includes high-quality noise attenuating headphones compatible with hard hats
- Unique AudioZoom™ volume control

Tru Pointe® 2100 Ultrasonic Leak Detector Kit

The first of its kind, theTru Pointe® 2100 uses two software-controlled sensors for the detection of airborne leak sounds and for the detection and location of solid-borne sounds from leaks and bearing wear. For ease of use and interpretation, the Tru Pointe® 2100 has two digital LED displays – a 20-segment bargraph display with peak-hold and an alphanumeric display for instrument settings and precision measurements. It's the most accurate and repeatable ultrasonic inspection instrument in its class.

- Capable of detecting a 5 PSI leak out of a 0.005" hole, 30' to 40' away (depending on background noise)
- Ideal for stream trap testing, detecting bearing wear, gas and valve leaks
- Capability of detecting ANY gas leaks, regardless of chemical property or concentration
- Capability of functioning like a stethoscope, using an industry-exclusive acoustic band, 0-10kHz

Tru Pointe® 1100 Specifications

AIRBORNE SENSOR SENSITIVITY	
	-80dB/v-μbar
ULTRASOUND CONVERTER TYPE	
	Digitally Controlled Heterodyne
FREQUENCY RESPONSE	
Airborne	34kHz - 42kHz
Touch Probe	16kHz - 24kHz
OUTPUT	
Audio	0Hz to 4kHz
Visual	20 Segment Bar Graph with Peak-Hold & Separate Alphanumeric display
ELECTRICAL SPECIFICATIONS	
Low Battery Indicator	Digital Display: BATT
Insuff. Battery Charge	Automatic shutdown
MECHANICAL SPECIFICATIONS	
Controls	4 Buttons (with AudioZoom™)
Power	9 Volt battery: provides 55-80 hrs. run time
Size	8.185" x 2.4" x 0.875" (20.78 cm x 6.1 cm x 2.22 cm)
Weight	0.5 lb. (233 g)
Audio Connector	3.5mm stereo
Warranty	1 year

ORDERING INFORMATION

0028-8002	Tru Pointe® 1100 Ultrasonic Leak Detector Kit
0028-8012	Tru Pointe® 1100 Ultrasonic Leak Detector Kit with Soundblaster®

Tru Pointe® 2100 Specifications

AIRBORNE SENSOR SENSITIVITY		
	-80dB/v-μbar	
ULTRASOUND CONVERTER TYPE		
	Digitally Controlled Heterodyne	
FREQUENCY RESPONSE		
Airborne	AirHi: 34kHz - 42kHz	AirLo: 26kHz - 34kHz
Touch Probe	PbHi: 34kHz - 42kHz	PbLo: 16kHz - 24kHz
Touch Probe Sonic	PbS: 0 - 10kHz	
OUTPUT		
Audio	0Hz to 4kHz	
Visual	20 Segment Bar Graph with Peak-Hold & Separate Alphanumeric display	
ELECTRICAL SPECIFICATIONS		
Low Battery Indicator	Digital Display: BATT	
Insuff. Battery Charge	Automatic shutdown	
MECHANICAL SPECIFICATIONS		
Controls	4 Buttons (with AudioZoom™)	
Power	9 Volt battery: provides 55-80 hrs. run time	
Size	8.185" x 2.4" x 0.875" (20.78 cm x 6.1 cm x 2.22 cm)	
Weight	0.5 lb. (233 g)	
Audio Connector	3.5mm stereo	
Warranty	1 year Audio Connector 3.5mm stereo	

ORDERING INFORMATION

0028-8003	Tru Pointe® 2100 Ultrasonic Leak Detector Kit
0028-8013	Tru Pointe® 2100 Ultrasonic Leak Detector Kit with Soundblaster®

Leak Detectors

H-10PM

3015-0627

- Refrigerant leak detector with dual power source that detects all CFC, HFC and HCFC
- Manual or automatic zero balance control
- Pass / fail test mode
- Unique sensor calibration system
- 3 sensitivity modes
- Powered by a rechargable battery
- Pinpoints both small and large leaks

H-10G

3015-0456

- Refrigerant leak detector with automatic and manual adjustment
- Detects all CFC, HFC and HCFC refrigerants
- AC powered (120 VAC only)
- Performance exceeds SAE J1627
- Supplied with leak reference bottle, probe tip and filter kit

	H-10PM	H-10G
SENSING TECHNOLOGY		
Refrigerant Sensor	Positive Ion Emission Heated Diode	
GASES DETECTED		
Refrigerants	All CFC, HCFC and HFC refrigerants	
RESPONSE TIME		
	1 second	
ALARM SENSITIVITY		
R-134a	Small - 0.1 oz / year Medium - 0.5 oz / year Large - 2.0 oz / year	
R12	Small - 0.05 oz / year Medium - 0.1 oz / year Large - 1.0 oz / year	
Accuracy	Exceeds SAE J1627	
LEAK ALARM		
Audible and visual	Visible LED lamp	Audible alarm and visible neon lamp
OTHER SPECIFICATIONS		
Power	12 VDC - internal rechargeable sealed lead acid battery 120 - 240 VAC universal battery charger to charge or run unit continuously	120 VAC 50/60 Hz
Size	5.5" x 10.5" x 8.5" (14 cm x 26.67 cm x 21.6 cm)	2.5" x 4.5" x 8.5" (6.35 x 11.43 x 21.6 cm)
Weight	5 lbs. (2.27 kg)	3 lbs. (1.36 kg)
Probe Length	4.5 ft (1.37 m)	4.5 ft (1.37 m)
CERTIFICATIONS		
	CE-Mark	

ORDERING INFORMATION

3015-0627	H-10PM All-In-One Leak Detector
3015-0456	H-10G Standard Leak Detector

OPTIONAL ACCESSORIES

3015-0119	Battery Charger for H-10PM, 120 - 240 VAC Universal (will charge or run unit)
3015-0103	Battery for H-10PM
3015-0326	14" Flexible Probe
3015-0638	Standard Probe Assembly for H10G
3015-0486	Replacement Sensor
3015-0864	Leak Reference Bottle
3015-0641	Clear Probe Tip
3015-0781	Tune-Up Kit
3015-0680	Rubber Probe Tip
3015-0880	Probe w/LED for H-10PM

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H25-IR

The H25-IR is an industrial-grade leak detection and measurement system. This instrument will locate, pinpoint and quantify the leak. Once a leak has been located it can be measured and the measured values can be logged and totaled for the entire system. This capability allows the user to ensure environmental or quality assurance compliance. This product can measure most refrigerant gases (over 40 in current library) as well as R-600a and SF_6, which can be displayed in terms of leak rate (oz/yr, g/yr, mL/s, PaM3/s) or concentration (ppm). The long-life infrared sensor and high sensitivity make the H25-IR the smart choice for the most demanding leak detection and measurement applications.

- NEW Faster response time
- Infrared (IR) detection technology ensures long sensor life and high accuracy
- IR sensor is tuned specifically to target gas minimizes false alarms
- Internal leak source enables calibrations to be made quickly and easily
- Detects leaks as small as 0.03 oz/yr

ORDERING INFORMATION

3015-5291	Refrigerants - Includes Smart Probe with 6' hose
3015-5292	Refrigerants - Includes Smart Probe with 12' hose
3015-5295	R600a - Includes Smart Probe with 6' hose
3015-5296	R600a - Includes Smart Probe with 12' hose
3015-5299	SF_6 - Includes Smart Probe with 6' hose
3015-5300	SF_6 - Includes Smart Probe with 12' hose

** Additional models available that include a standard probe with LED and button*

SENSING TECHNOLOGY

Non-Dispersive Infrared (NDIR)

GASES DETECTED

Refrigerants	CFC, HFC, and HCFC unit: R-11, R-12, R-21, R-22, R-23, R-113, R-114, R-123, R-124, R-125, R-134a,R-227, R-236FA, R-245FA, R-401A, R-402A, R-402B, R-404A, R-407A, R-407C, R-408A, R-409A, R-410A, R-422A, R-422D, R-424A, R-426A, R-427A, R-500, R-502, R-503, R-507, R-508B, FA188, FC72, H-1211, H-1234YF, H-1301, H-2402, HFP, N-1230
Isobutane	R-600a
Other	Sulfur hexafluoride (SF_6)

TIME

With 6' probe hose attached	1 second

MEASUREMENT

Units	oz/yr, g/yr, mL/s, PaM3/s, ppm
Range	0.03 - 5.00 oz/yr
Sensitivity	0.03 oz/yr

WARM UP TIME

2 minutes

OPERATING MODES

Search	Detects presence and location of gas leaks
Measure	Calculates and displays leak rate

OPERATING TEMPERATURE RANGE

Storage Temperature Range	32 to 122°F (0 to 50°C) –4 to 122°F (–20 to 50°C)
Operating Humidity Range	5 to 90% RH, non-condensing

OTHER SPECIFICATIONS

Power	100 to 240 VAC, 50/60 Hz
Size	4"H x 10.75"W x 15"D (10.2 cm x 27.3 cm x 38.1 cm)
Weight	18 lbs. (8.2 kg)
Probe Length	Smart Probe, 6 foot Hose Smart Probe, 12 foot Hose
Warranty	Two year full warranty on instrument

Leak Detectors

Leak Detector Family of Products	Informant® 2	Leakator® 10	Leakator® Jr.	Tru Pointe®	H-10G	H-10PM	H25-IR
	R C	R C	R C	R C	C i	R	C i
WHAT THEY DETECT							
Combustible Gas Leak Detection	✔	✔	✔				
Refrigerant Leak Detection	✔			✔	✔	✔	✔
Specialty Gas Leak Detection							✔
SENSITIVITY							
Refrigerant (oz/year of R134a)	0.25			0.1	0.1 (0.05 for R12)	0.1 (0.05 for R12)	0.03 (0.01 for R12)
Combustibles (ppm Methane)	50	20	20				
Sensitivity Modes	Auto	Manual	2	2	3	3	3
Response Time	Instantaneous	Instantaneous	<3 sec to fs	Instantaneous	1 sec	1 sec	0.5 - 1 sec
WHAT THEY FEATURE							
Automatic Calibration and Zero Out Function	✔		✔	✔	✔	✔	✔
Replaceable Sensors	✔	✔	✔	✔	✔	✔	Infrared
Warm Up Time (approx. in seconds)	10	10	60	10	120	120	120
Audible Alarm	✔	✔	✔	✔	✔	✔	✔
Mute Option	✔						Adj. Volume
Visual Alarm	✔	✔	✔	✔	✔	✔	✔
Hard Shell Case	✔	✔		✔	Self-contained	Self-contained	Self-contained
Warranty	1-Year	1-Year	2-Years	1-Year	5-Year Lim.	5-Year Lim.	2-Year Lim.
POWER SOURCE							
Battery Life (typical in hours)	5	30	14	15		3	8
Low Battery Indication	✔	✔	✔	✔		✔	
Power Supply/Batteries	4 AA cell alkaline	5 C cell alkaline	4 AA cell alkaline	2 D cell alkaline	120 VAC (internal & external 120VAC)	12 VDC VAC	100 - 240 VAC
CERTIFICATIONS							
UL 913 Intrinsically Safe Class I, Div. 1, Group D	✔	✔	✔				
CE Mark	✔	✔	✔	✔	✔	✔	
SAE J 1627	✔			✔			

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A/C, REFRIGERATION AND MAINTENANCE FAMILY OF PRODUCTS

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Bacharach offers a complete line of rugged and durable refrigerant recovery machines designed for portability. These units simplify and speed up the recovery of most common refrigerants and are available to meet the requirements of residential, commercial and industrial work environments. In addition, Bacharach offers an A/C refrigeration and maintenance group of products to do the job, including vacuum pumps, scales, manifolds, and swaging and cutting kits.

Stinger®

The Stinger® is one of the highest quality refrigerant recovery units on the market. Its powerful compressor will pump refrigerants at a quick pace while preventing pollutants from escaping into the environment. This A/C refrigerant recovery unit has been designed with R410A in mind in addition to other refrigerants, and is perfect for residential and light commercial contractors.

The Bacharach Advantage:

- Vacuum shut off allowing for unattended recovery operation
- NEW Easy to read low vacuum/tank full LED
- NEW Carrying strap
- NEW Improved packaging protects knobs and gauges
- NEW Larger compressor provides better heat dissipation on hot days, IMPORTANT for R-410A
- High torque motor on compressor handles higher pressures under load
- One year over the counter warranty
- Handles almost all refrigerants
- Labeling on rear of unit with directions for proper connection
- Lightweight and compact

REFRIGERANT RECOVERY CAPABILITY	
Refrigerants	R-12, R-22, R-114, R134a, R-401A, R-401B, R-401C, R-402A, R-402B, R-404A, R-406A, R-407A,R-407B, R-407C, R-407D, R-408A, R-409A, R-410A, R-411A, R-411B, R-412A, R-500A, R-502B, R-507, R-509
RECOVERY RATES (ARI CERTIFIED)	
Refigerant R-22	Vapor Recovery Rate: 0.29lbs./min. (0.13kg/min.) Liquid Recovery Rate: 3.53lbs./min. (1.60 kg/min.) Liquid Push / Pull: 12.28lbs./min. (5.58 kg/min.)
Refrigerant R-134a	Vapor Recovery Rate: 0.22lbs./min. (0.10 kg/min.) Liquid Recovery Rate: 2.66lbs./min. (1.21 kg/min.) Liquid Push / Pull: 10.96 lbs./min. (4.98 kg/min.)
Refrigerant 410a	Vapor Recovery Rate: 0.22lbs./min. (0.10 kg/min.) Liquid Recovery Rate: 3.00lbs./min. (1.37 kg/min.) Liquid Push / Pull: 14.58lbs./min. (6.63 kg/min.)
VACUUM SPECIFICATIONS	
Compressor Type	0.8 HP High Performance Oil-less
Vacuum Rating	15" Hg+
High Pressure Limit	550 PSI (37.9 bar)
OTHER SPECIFICATIONS	
Power Source	110/120 VAC, 1 Phase, 50/60 Hz, 8 Amps 220-230 VAC, 1 Phase, 50/60 Hz, 4 Amps 240 VAC, 1 Phase, 50/60 Hz, 5 Amps
Weight	24 lbs. (11 kg)
Warranty	1 year, over-the-counter; 5 years on motor brushes

ORDERING INFORMATION	
2006-3800	Stinger® Domestic 120V
2006-3801	Stinger® Domestic 120V w/ 80% Shut-Off
2006-3807	Stinger® European 220-230V
2006-3811	Stinger® European 220-230V w/ 80% Shut-Off
2006-3808	Stinger® AUS 240V
2090-0091	Optional 80% Shut-Off Kit

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MODEL 3600 / MODEL 3700

For commercial refrigerant recovery applications, the rugged Model 3600 and Model 3700 are high performance machines with twice the capacity and faster recovery than competitive units. With 0.5 hp (Model 3600) or 1.0 hp (Model 3700) oil-less proprietary high performance compressors, these workhorses recover vapors nd liquids at unsurpassed ARI performance certified rates.

- Recovers ALL commonly used, refrigerants including R-410A (Puron™)
- 550 PSI high pressure cut-off, high pressure gauges
- LED system status display
- Rugged and reliable
- Automatic shut-off when evacuation is complete
- Self purge and vacuum shut-off
- Hi-low compressor head and valves
- Simple operation / purges clean
- Contains integrated sight glass
- 3/8" ports for faster, high-volume refrigerant recovery

		MODEL 3600	MODEL 3700
REFRIGERANT RECOVERY CAPABILITY			
Refrigerants		All refrigerants except R-11, R-113 and R-123	
SAMPLE RECOVERY RATES (ARI CERTIFIED)			
R410A	Vapor Recovery Rate:	0.42 lbs./min. (0.19 kg/min.)	0.84 lbs./min. (0.38 kg/min.)
	Liquid Recovery Rate:	3.3 lbs./min. (1.5 kg/min.)	9.37 lbs./min. (4.25 kg/min.)
	Push/Pull Recovery Rate:	15.65 lbs./min (7.1 kg/min.)	53 lbs./min (24.04 kg/min.)
R22	Vapor Recovery Rate:	0.37 lbs./min. (0.17 kg/min.)	0.75 lbs./min. (0.34 kg/min.)
	Liquid Recovery Rate:	4.96 lbs./min. (2.25 kg/min.)	8.31 lbs./min. (3.77 kg/min.)
	Push/Pull Recovery Rate:	13.01 lbs./min (5.9 kg/min.)	50.51 lbs./min (22.91 kg/min.)
R134A	Vapor Recovery Rate:	0.29 lbs./min. (0.13 kg/min.)	0.57 lbs./min. (0.26 kg/min.)
	Liquid Recovery Rate:	3.86 lbs./min. (1.75 kg/min.)	6.12 lbs./min. (2.77 kg/min.)
	Push/Pull Recovery Rate:	11.84 lbs./min (5.37 kg/min.)	41.7 lbs./min (18.92 kg/min.)
VACUUM SPECIFICATIONS			
Compressor Type		0.5 HP High Performance Oil-less Reciprocating	1.0 HP High Performance Oil-less Reciprocating
Vacuum Rating		13" Hg+	
High Pressure Limit		550 PSI (37.9 bar)	
OTHER SPECIFICATIONS			
Power Source		115 VAC, 50/60 Hz 230 VAC, 50/60 Hz	
Weight		35 lbs. (15.9 kg)	47 lbs. (21.3 kg)
Dimensions		12" x 13" x 7.5" (30.5 cm x 33 cm x 19 cm)	12" x 14.25" x 8.75" (30.5 cm x 36.2 cm x 22.3 cm)
Self Purging System		No hose changes	
80% Shut-Off		Optional	

ORDERING INFORMATION

2000-3600	Model 3600 410A Refrigerant Recovery Unit
2000-3601	Model 3600 410A-S Refrigerant Recovery Unit w/80% Shut-off
2000-3611	Model 3600 R-S Refrigerant Recovery Unit w/80% Shut-off Feature
2000-3700	Model 3700 Refrigerant Recovery Unit
2000-3707	Model 3700 Refrigerant Recovery Unit (European model)
2000-3701	Model 3700-S Refrigerant Recovery Unit w/80% Shut-off Feature

OPTIONAL ACCESSORY

2002-0081	Optional 80% Shut-Off Kit

R-22id

The R•22id is a compact handheld refrigerant identifier that verifies the presence and quality of R22 refrigerant in HVAC/R air conditioning systems and tanks. It delivers fast and accurate refrigerant identification to avoid potential damage to your air conditioning service equipment and business from refrigerant contamination. With a simple, one button operation, system contents can be identified and verified in less than five minutes with automatic step-by-step indication of the gas sampling process.

The Bacharach Advantage:

- Compact and lightweight design
- Simple one-button operation
- Step-by-step user indication of gas sampling process
- Quick PASS or FAIL result

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REFRIGERANT IDENTIFIER CAPABILITY	
Detection Principle	Non-Dispersive Infrared (NDIR); Single Detector
Refrigerant	R22
Accuracy	PASS/FAIL - 95% Pure R22

OPERATING RANGES	
Operating Temperature Range	50˚-113˚F (10˚-45˚C)
Operating Humidity Range	0-95% RH Non-Condensing

OTHER SPECIFICATIONS	
Size	7" h x 4.25" w x 2.25 d (17.78 cm x 10.8 cm x 5.72 cm)
Weight	2 lbs. (0.91 kg)
Body Materials	Durable ABS Housing with Molded Rubber Boot
User Interface	Membrane Type Keypad with LED Visual Indicators and Function Key
Power	9 Volt Alkaline (Optional 110/220 VAC)
Certifications	UL, CE Mark
Warranty	1 year

ORDERING INFORMATION	
2100-8000	R•22id
2100-0001	R•22id Oil Restrictor Hose and Brass Restrictor

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Pur·Chek™

Pur•Chek™ is smarter and faster than any refrigerant identifier used in the industry today. Its compact size and ergonomic design makes testing easy and it utilizes non-dispersive infrared (NDIR) technology to determine the weight concentrations of R12, R134A, R22, hydrocarbons, and air. It also features 'Blend-Chek' analytical software which quickly and accurately indicates the presence of R410A blend refrigerant.

- Accurately determines refrigerant purity
- Fast 60-second test time
- Large display clearly shows results
- Optional built-in printer

Pur·Chek Pro™

The all new Pur•Chek™ Pro is the ultimate HVAC/R diagnostic refrigerant analyzer that enables fast and accurate testing of the widest range of refrigerants ever offered in a portable instrument. Pur•Chek™ Pro identifies more than a dozen HVAC/R refrigerants and provides a complete component breakdown of refrigerant blend ratios that can be printed out with the built-in printer.

- Oil contamination resistant
- Composition breakdown of more than a dozen refrigerants
- Internal thermal printer provides on-the-spot documentation
- Remote software updates for new refrigerants

Pur-Chek™ Specifications

DETECTION PRINCIPAL
Non-Dispersive Infrared (NDIR) Dual Detectors with Dual Filters

REFRIGERANT
R12, R134A, R404A, R407C, R410A & Hydrocarbons
Accuracy: +/-1% for measured refrigerants

OPERATING TEMPERATURE
40°-130°F (4°C - 54°C)

RESPONSE TIME
60 seconds

TEST SAMPLE
5g per test / test pressure 50 psi - 500 psi
Sample gas extraction: Pressure from cylinder or steam

OTHER SPECIFICATIONS

Sample Hose	R12 (¼" flare)
Power	110/220 VAC Power Adapter
	12-15V DC Optional Battery Pack (Internal)
Size	8.25" x 15.5" x 3.5" (20.95 cm x 39.37cm x 8.89 cm)
Weight	8 lbs. (3.63 kg)
Certifications	UL, cUL, CE Mark
Warranty	1 year

ORDERING INFORMATION

2100-8001	Pur·Chek™
2100-8002	Pur·Chek™ with Printer

OPTIONAL ACCESSORIES

2100-0007	Optional Rechargeable Battery Kit for Pur·Chek™
2100-0012	Spare Rechargeable Battery Kit for Pur•Chek™
2100-0006	Replacement Sample Filter for Pur•Chek™
2100-0005	Pur•Chek™ Hose Assembly
2100-0003	Printer Paper for Pur•Chek™ (1 roll)

Pur-Chek™ Pro Specifications

DETECTION PRINCIPAL
Non-Dispersive Infrared (NDIR) Single Detectors with 13 unique Filters

REFRIGERANT
R12, R134A, R404A, R407C, R410A, Hydrocarbons, & more. Accuracy: +/-1.2% for measured refrigerants

OPERATING TEMPERATURE
50°-113°F (10°C - 45°C)

RESPONSE TIME
<3 minutes

TEST SAMPLE
5g per test / test pressure 50 psi - 500 psi
Sample gas extraction: Pressure from cylinder or steam

OTHER SPECIFICATIONS

Sample Hose	R12 (¼" flare)
Power	110/220 VAC Power Adapter
	12-15V DC Optional Battery Pack (Internal)
Size	8.25" x 15.5" x 3.5" (20.95 cm x 39.37cm x 8.89 cm)
Weight	8 lbs. (3.63 kg)
Certifications	UL, cUL, CE Mark
Warranty	1 year

ORDERING INFORMATION

2100-8003	Pur·Chek™ Pro

OPTIONAL ACCESSORIES

2100-0007	Optional Rechargeable Battery Kit for Pur·Chek™ Pro
2100-0012	Spare Rechargeable Battery Pack for Pur·Chek™ Pro
2100-0006	Replacement Sample Filter for Pur·Chek™ Pro
2100-0008	Pur·Chek™ Pro Low Pressure Vapor Sample Hose
2100-0010	Pur·Chek™ Pro Low Pressure Sample Hose Filter
2100-0009	Pur·Chek™ Pro High Pressure Liquid Sample Hose Assy.
2100-0003	Printer Paper for Pur•Chek™ Pro (1 roll)

Maintenance Tools

Vacuum Pump

2002-0005
- QV5 (24.7lbs.) - 5.3CFM
- Two stage rotary vane pump
- 1/4" and 3/8" flare and 1/2" ACME intake ports
- Light, compact and well balanced
- High performance vacuum, HP and CFM ratings for all A/C and refrigeration applications
- 110 VAC / 60 Hz
- One year warranty

2002-0001
- QV2 (19.4lbs.) - 1.7CFM

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CS100 Charging Scale

2010-0000
- Auto zero
- Tethered display with flip-up stand
- Adjustable leveling feet with built-in level indicator
- Handles a wide range of both standard and recovery cylinders up to 330lbs (150 kg)

Manifold Sets

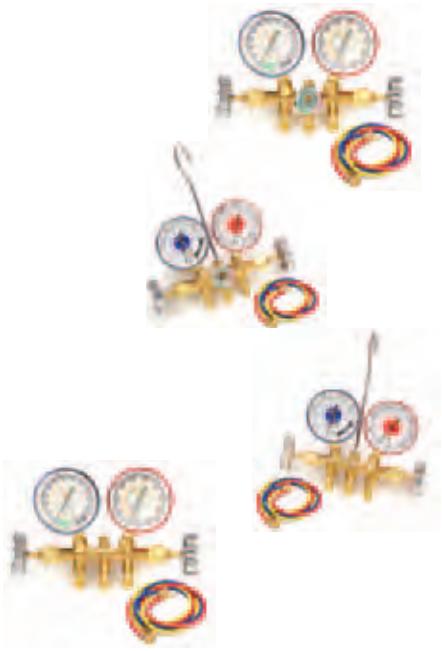
2002-4000
- MS040 manifold set with sight glass R-12/22/134a with three hoses (R/Y/B) 60" length, brass manifold body, hanger hook, hose holder, two-handed wheels and 1/4" flare fittings. Gauge pressure: 0-250 PSI and 0-800 PSI. Hose pressure: 800 PSI Max W.P. and 2500 PSI burst pressure

2002-4300
- MS430 manifold set with sight glass R-410A with three hoses (R/Y/B) 60" length, brass manifold body, hanger hook, hose holder, two-handed wheels and 1/4" flare fittings. Gauge pressure: 0-500 PSI and 0-800 PSI. Hose pressure: 800 PSI Max W.P. and 4000 PSI burst pressure

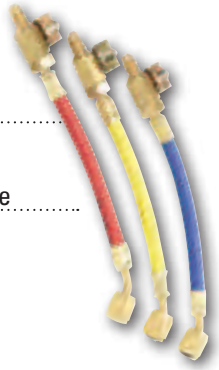
2002-4350
- MS435 4-valve manifold R-410A

2002-4375
- MS437 4-valve manifold R-12/22/134a

2002-5000
- MS050 manifold set R-12/22/134a with three hoses (R/Y/B) 60" length, brass manifold body, hanger hook, hose holder, two-hand-wheels and 1/4" flare fittings. Gauge pressure: 0-250 PSI and 0-500 PSI. Hose pressure: 500 PSI Max W.P. and 2500 PSI burst pressure



Ball Valve Hose Set



2002-0003 • BV3 Ball Valve Hose Set R-12/22/134a with three hoses (R/Y/B), 6" length and 1/4" flare fittings, hose pressure: 500 PSI Max W.P. and 2500 PSI burst pressure

2002-0040 • BV410A Ball Valve Hose Set 410A with three hoses (R/Y/B), 6" length and 1/4" flare fittings, hose pressure: 800 PSI Max W.P. and 4000 PSI burst pressure

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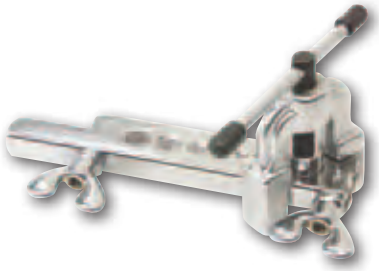
Hose Set

2002-4700 • MS470 Hose Set R-12/22/134a with three hoses (R/Y/B) 60" length and 1/4" flare fitting. Hose pressure: 500 PSI Max W.P. and 2500 PSI burst pressure

Flaring and Cutting Kit

2002-6400 • HT1226 Flaring and Cutting Kit, includes (1) tubing cutter (1/8" to 1 1/8"), and (1) flaring tool (1/8", 3/16", 1/4", 5/16", 3/8", 7/16", 1/2" and 5/8") all in a hard carrying case

2002-6500 • HT278 Flaring and Cutting Kit, includes (1) tubing cutter (1/8" to 1 1/8"), flaring tool with (2) flares (1/8", 3/16", 1/4", 5/16", 3/8", 7/16", 1/2", 5/8" and 3/4"), (5) swaging adapters (3/16", 1/4", 5/16", 3/8", 1/2", 5/8" and 3/4") and (1) refrigeration wrench with 4 square openings (3/16", 1/4", 5/16", 3/8") all in a hard carrying case



Flaring Tool

2002-7100 • HT195 Flaring Tool (7 sizes) for 3/16", 1/4", 5/16", 3/8", 7/16", 1/2", and 5/8" O.D. tubing

Swaging Punch

2002-7200 • HT95 Swaging Punch for 1/4", 5/16", 3/8" 1/2", and 5/8" O.D. tubing

Flaring and Burnishing Tool

2002-0525 • HT525 flaring and burnishing tool, for 3/16" to 5/8" O.D. tubing

Tubing Cutter

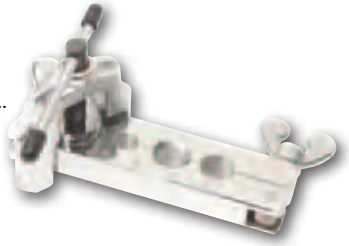
2002-0780 • HT780 tubing cutter, capacity 1/8" to 7/8" O.D. tubing

2002-1818 • HT1818 tubing cutter, aluminum alloy body, chrome plated with spare cutter wheel. Capacity 1/8" to 1 1/8" O.D. tubing

2002-1858 • HT1858 tubing cutter, capacity 1/8" to 5/8" O.D. tubing

2002-1878 • HT1878 tubing cutter, zinc plated finish, capacity 1/8" to 5/8" O.D. tubing

Heavy Flaring Tool



2002-7000 • HT203 heavy flaring tool for 5/8", 3/4", 7/8" and 1 1/8" O.D. tubing

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Flaring Tool

2002-6100 • HT500 flaring tool for 3/16" 1/4", 5/16", 3/8", 1/2" and 5/8" O.D. tubing

Humidity-Temperature Meter

2002-1800 • Humidity-temperature meter with case

Telescopic Inspection Mirrors

2002-0300 • HT3IM telescopic inspection mirrors, set of 4

PVC Pipe Cutter

2002-2120 • HT212 PVC pipe cutter, capacity up to 1 5/8"

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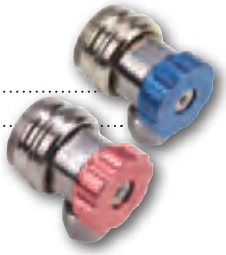
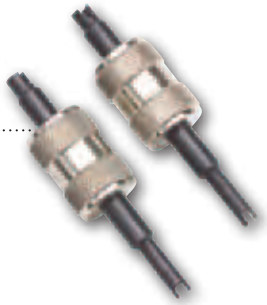
Coupler



2002-1340 • Lowside R134A coupler
2002-1341 • Highside R134A coupler

Valve Core Removal Tool



2002-0125 • HTVCRT double ended valve core removal tool

Refrigeration Ratchet Wrench

2002-0112 • HTRW122 refrigeration ratchet wrench with 4 square openings, 3/16", 1/4", 5/16" and 3/8"

2002-0123 • HTRW123 refrigeration ratchet wrench with 3/16" and 1/4" square openings and 1/2" and 9/16" hex openings

Capillary Cutter

2002-8000 • HT128 capillary cutter

A/C, Refrigeration & Maintenance

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A/C Refrigeration Family of Products	Stinger™	MODEL 3600	MODEL 3700
	R C	C i	i
WHAT THEY DO			
Recovers All Commonly Used Refrigerants Including R410A	✔	✔	✔
Recovers Vapor and Liquid	✔	✔	✔
HOW DO THEY WORK?			
Vacuum Shut-Off Switch	✔	✔	✔
Oil-less Compressor	✔	✔	✔
Single Piston Compressor	✔	✔	
Dual Piston Compressor			✔
Filter Dryer		FM3600R-S	
SPEED OF RECOVERY (LB/MIN)-R410A			
Liquid Refrigerant Recovery Rate	3.0 lbs/min	3.3 lbs/min	9.4 lbs/min
Vapor Refrigerant Recovery Rate	.22 lbs/min	.42 lbs/min	.84 lbs/min
WHAT THEY FEATURE			
LED Status Light	✔	✔	✔
Carrying Strap	✔	✔	✔
Easy to Read Gauges	✔	✔	✔
Weight	24 lbs	35 lbs	47 lbs
Size	11"H x 17"L x 9.5"W	12"H x 13"L x 7.5"W	12"H x 14.25"L x 8.75"W
Warranty	1-Year, Over the Counter 5-Years on Motor Brushes	1-Year	1-Year
POWER SOURCE			
Power Source	110-120 VAC 1 Phase 50/60 HZ, 8 Amps 220-230 VAC	115 VAC 50/60 HZ, 230 VAC 50/60 HZ, 100 VAC 50/60 HZ	115 VAC 50/60 HZ 230 VAC 50/60 HZ, 100 VAC 50/60 HZ
WHAT CAN BE ADDED			
80% Tank Shut-Off	✔	✔ Comes standard with FM3600R-S	✔ Comes standard with FM3700-S
CERTIFICATIONS			
ARI Performance Certification	✔	✔	✔
CE Mark	✔		

BACHARACH'S GAS LEAK MONITOR FAMILY OF PRODUCTS

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Bacharach refrigerant monitors provide a unique combination of high sensitivity, large dynamic measurement range and speed of response. Utilizing infrared technology, these single and multi-zone products allow customers point by point customization, remote communications, centralized reporting and maintenance. Mainly used to detect and monitor Halogen, Ammonia and Carbon Dioxide refrigerant gases found in mechanical rooms, grocery stores and manufacturing. These state-of-the-art products lead the industry in performance, cost of ownership, integration capabilities and cost. Bacharach's gas leak monitor family of products are compliant with ASHRAE standard 15-2007, ETL Energy Saving Listed and meets California Code Regulations for Refrigerant Monitors. Low level accuracy and detection limits respond to leaks when they are small, providing early warning for detection and repair; resulting in lower energy consumption as well as reduced refrigerant costs.

Single-Zone Gas Leak Monitor (HGM-SZ / AGM-SZ)

The HGM-SZ (Halogen Gas Monitor Single-Zone) is designed for continuous single-point monitoring of Ammonia, CFC, HFC, HCFC and Halon refrigerant gases. The HGM-SZ displays the type of gas being monitored, along with displaying both the current gas level and the peak gas level detected on its front panel LCD. The instrument retains a log of previous readings that can be easily accessed for analysis.

An internal audible alarm and front panel indicators are provided to signal alarm and fault conditions, and relay contacts can be used to trigger external alarm devices in the event of a system fault, or if a leak (small), spill (medium), or evacuation (large) level of gas is detected. The system also includes a 4-20 mA current loop interface that can be connected to remote monitoring equipment. Bacharach's gas leak monitor family of products are compliant with ASHRAE standards, 15-9994 and 15-2004, and meets California Code Regulations for Refrigerant Monitors.

SENSING TECHNOLOGY	
Detector	Single Pass, Non-dispersive Infrared (NDIR)
GASES DETECTED	
HGM - SZ	R-11, R-12, R21, R-22, R-23, R-113, R-114, R-123 R-124, R125, R-134a,R-227, R236FA, R245Fa, R-401a, R-402a, R-402b, R-404a, R-407a, R407c, R-408a, R409a, R-410a, R422a, R422d, R424A, R426A, R427a, R-500, R-502, R-503, R-507, R508b, HFP, H-1211, H-1301, H-2402, N-1230, FA188, FC72, HFO-1234YF
AGM-SZ	Ammonia (NH3) - also known as R-717
MEASUREMENT RANGE / RESOLUTION	
All Refrigerants	0 -10,000 ppm in 1 ppm increments
Ammonia	25 -10,000 ppm in 1 ppm increments
OUTPUTS	
Alarm Relays	3 ea. SPDT, 5 Amp, 240 VAC rated
System Fault Relay	1 ea. SPDT, 5 Amp, 240 VAC rated
Digital Display Output	1 dedicated 4-20 mA analog output (floating ground)
FRONT PANEL DISPLAY	
3 Indicator Lights	Green = Monitor is powered on. LED glows during normal operation; flashes when unit is in warm-up mode
	Red = Alarm. LED flashes when any point has exceeded the alarm setting
	Yellow = Fault. LED flashes when there is a system fault
COMMUNICATIONS	
	4-20 mA Analog Output
OTHER SPECIFICATIONS	
Power	100 to 240 VAC, 50/60 Hz
Dimensions	7.5"H x 13.5"W x 3.625"D (190.5 x 343 x 92 mm)
Weight	5.5 lbs (2.5 kg.)
Maximum Monitoring Distance	Up to 500 feet from measuring point to monitor
Warranty	2 Years
CERTIFICATIONS	
UL 61010-1, CSA 22.2 No. 61010-1 EN14624 & CE Mark	

- No costly calibrations required
- Single-zone gas leak refrigerant monitor
- Measurement range of 0-10,000 ppm
- Sensitivity to 1 ppm
- Provides continuous, unattended monitoring
- Capable of detecting and measuring any CFC, HFC or HCFC
- Can monitor a location up to 500 feet from display unit
- Other models are available that detect and monitor gases such as low range and high range CO_2, and Nitrous Oxide (N_2O)

ORDERING INFORMATION	
3015-4200	HGMSZ single-zone monitor (includes 1 termination filter, 50 ft. of 304-2742 sample line tubing and 50 ft.of 304-2743 exhaust /purge line tubing)
3015-4280	AGMSZ single-zone monitor (includes 1 termination filter, 50 ft.of 304-2742 sample line tubing and 50 ft.of 304-2743 exhaust /purge line tubing)
3015-5529	Single-Zone Annual Maintenance Kit
3015-4992	MZ-RD Remote Display

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Multi-Zone Gas Leak Monitor (HGM-MZ / AGM-MZ / CO_2-MZ)

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The Multi-Zone Gas Leak Monitor is a multiple area monitoring system for low level continuous monitoring of refrigerant gases used in most commercial systems including; CFC, HCFC, HFC, Ammonia and Carbon Dioxide. This state-of-the-art product leads the industry in performance, cost of ownership, integration capabilities and cost. Capable of detecting more than 35 refrigerant gases, the system design supports compliance to gas monitoring requirements of ANSI/ BSR ASHRAE 15-1994 and 15-2004, ETL Energy Saving Listed and meets California Code Regulations for Refrigerant Monitors.

Bacharach's HGM-MZ uses stable infrared detection technology, and therefore requires only minor periodic maintenance such as the occasional replacement of filters. The monitor incorporates active diagnostics that continuously check the system for proper operation. An audible alarm and front panel indicators are provided to signal alarm and fault conditions, and relay contacts are provided that can be used to trigger external alarm devices in the event of a system fault or preset gas level thresholds.

SENSING TECHNOLOGY	
Detector	Single Pass, Non-dispersive Infrared (NDIR)
GASES DETECTED	
HGM - MZ	R-11, R-12, R-22, R-23, R-113, R-114, R-123 R-124, R-134a,R-227, R236FA, R-401a, R-402a, R125, R-402b, R-404a,R-407a, R407c,R-408a, R409a, R-410a,R-500, R-502,R-503, R-507, R508b, H-1211, H-1301, H-2404, N-1230
AGM-MZ	Ammonia (NH_3) - also known as R-717
CO_2-MZ	Carbon Dioxide (CO_2) - also known as R-744
MEASUREMENT RANGE / RESOLUTION	
All Refrigerants	0 -10,000 ppm in 1 ppm increments
Ammonia	25 -10,000 ppm in 1 ppm increments
Carbon Dioxide	0 - 8,000 ppm in 1 ppm increments
OUTPUTS	
Relays	Four SPDT alarm contacts are provided (rated 5 Amps at 250 volts). Three assigned to ppm level alarms, one assigned to system fault
FRONT PANEL DISPLAY	
3 Indicator Lights	Green = Monitor is powered on. LED glows during normal operation; flashes when unit is in warm-up mode
	Red = Alarm. LED flashes when any point has exceeded the alarm setting
	Yellow = Fault. LED flashes when there is a system fault
COMMUNICATIONS	
	Full two-way communication with HGM-RD Display Module or Building Management System via RS-485 serial interface. RS-232C communication port standard
OTHER SPECIFICATIONS	
Power	100 to 240 VAC, 50/60 Hz. 20 W
Dimensions	12.23" H x 13.7" W x 4.96" D (78.9 cm x 88.39 cm x 40 cm)
Weight	15 lbs (6.80 kg)
Maximum Monitoring Distance	Up to 1,200 feet, from measuring point to monitor
Warranty	2 Years
CERTIFICATIONS	
UL 61010-1, CSA 22.2 No. 61010-1 EN14624 & CE Mark	

- No costly calibrations required
- Fastest response time in the industry
- Longest sampling distance of up to 1,200 feet
- Rapid identification of alarm type, leak size and location
- Monitors up to 16 zones with a maximum of 64 zones in combination with 4 monitors controlled by the Remote Display accessory unit
- Full two-way communications via RS-485

ORDERING INFORMATION	
3015-5043	Halogen Gas Monitor 4 Zones
3015-5044	Halogen Gas Monitor 8 Zones
3015-5045	Halogen Gas Monitor 12 Zones
3015-5046	Halogen Gas Monitor 16 Zones
3015-5047	Ammonia Gas Monitor 4 Zones
3015-5048	Ammonia Gas Monitor 8 Zones
3015-5049	Ammonia Gas Monitor 12 Zones
3015-5050	Ammonia Gas Monitor 16 Zones
3015-5356	Carbon Dioxide Gas Monitor 4 Zones
3015-5357	Carbon Dioxide Gas Monitor 8 Zones
3015-5358	Carbon Dioxide Gas Monitor 12 Zones
3015-5359	Carbon Dioxide Gas Monitor 16 Zones
MULTI-ZONE KITS	
3015-5330	Halogen Gas Monitor 4 Zones + Remote Display
3015-5331	Halogen Gas Monitor 8 Zones + Remote Display
3015-5332	Halogen Gas Monitor 12 Zones + Remote Display
3015-5333	Halogen Gas Monitor 16 Zones + Remote Display
3015-5334	Ammonia Gas Monitor 4 Zones + Remote Display
3015-5335	Ammonia Gas Monitor 8 Zones + Remote Display
3015-5336	Ammonia Gas Monitor 12 Zones + Remote Display
3015-5337	Ammonia Gas Monitor 16 Zones + Remote Display
3015-5338	Carbon Dioxide Gas Monitor 4 Zones + Remote Display
3015-5339	Carbon Dioxide Gas Monitor 8 Zones + Remote Display
3015-5340	Carbon Dioxide Gas Monitor 12 Zones + Remote Display
3015-5341	Carbon Dioxide Gas Monitor 16 Zones + Remote Display
ACCESSORIES	
3015-5138	MZ-RD Remote Display (see page 34)

For Carbon Dioxide versions, call the factory for availability.

Remote Display

The Remote Display (MZ-RD) is a Multi-Zone accessory that is placed in an alternate location from the MZ with access to the diagnostics, communications and control of the unit.

3015-5138

- Remote access to control room for Multi-Zone data and diagnostics
- Quickly identify and resolve potential system faults
- Rapid identification of alarm type, leak size, and location
- Can connect up to 4 Multi-Zones expanding zone coverage to 64

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ADDITIONAL ACCESSORIES FOR THE MULTI-ZONE MONITORS

	HGM or AGM	
		Multi-Zone Accessories
3015-3411	BOTH	4 Zone Line End Filter Kit (4 line end filters)
3015-3430	BOTH	R-22 Gas Verification Kit
3015-3437	BOTH	R-134a Gas Verification Kit
3015-3438	BOTH	R-123 Gas Verification Kit
3015-3850	BOTH	103 L Cylinder, 100 PPM R-22
3015-3851	BOTH	103 L Cylinder, 100 PPM R-134a
3015-3852	BOTH	103 L Cylinder, 100 PPM R-123
3015-5529	BOTH	Single-Zone Annual Maintenance Kit
3015-5525	BOTH	Multi-Zone, 4 Zone Annual Maintenance Kit
3015-5526	BOTH	Multi-Zone, 8 Zone Annual Maintenance Kit
3015-5527	BOTH	Multi-Zone, 12 Zone Annual Maintenance Kit
3015-5528	BOTH	Multi-Zone, 16 Zone Annual Maintenance Kit
3015-4121	BOTH	120 VAC Surge Protector
3015-4123	BOTH	4-20 mA DC Surge Protector
3015-5152	BOTH	Dual 4-20 mA DC Output Option (HGM/AGM/CO_2-MZ)
3015-4230	BOTH	N2 (JCI Metasys) Communications Package
3015-4231	BOTH	Lon Works Communications Package
3015-5171	BOTH	4 Zone Expansion Kit (max. of 3 per HGM300) Note: Must order M1110BN also.
3015-4992	BOTH	4-20 mA Powered Remote Display (for MZ, must use with 3015-5152)
3015-5512	BOTH	End-of-line Water Stop
0007-1655	BOTH	Inline Water Trap

ADDITIONAL ACCESSORIES FOR ALL MONITORS

	HGM or AGM	
		Single-Zone and Multi-Zone Accessories
3015-4121	BOTH	120 VAC Surge Protector
3015-4123	BOTH	4-20 mA DC Surge Protector
3015-3069	BOTH	Visual Alarm, 120 VAC
3015-3070	BOTH	Audio Alarm, 120 VAC
3015-3076	BOTH	Audio-Visual Alarm, 120 VAC
3015-5490	BOTH	Audible / Visual Alarm, Surface Mount, IP65 Rating, Red Lens, 24 VDC
3015-5491	BOTH	Audible / Visual Alarm, Panel Mount, IP54 Rating, Red Lens, 24 VDC
3015-5492	BOTH	Audible Alarm, Surface Mount, IP65 Rating, 24 VDC
3015-5493	BOTH	Audible Alarm, Panel Mount, IP54 Rating, 24 VDC

REPLACEMENT PARTS

		Multi-Zone Replacement Parts
0007-1650	BOTH	Hydrophobic Filter
3015-2906	BOTH	Line End Filter Only
3015-3125	BOTH	Charcoal Filter Assembly with Fittings
3015-3235	HGM	Air Sample Tubing (250 ft. roll)
3015-5111	BOTH	AGM Air Sample Tubing (500 ft. roll) - Must use with AGM
3015-3420	BOTH	Line End Filter Assembly
0007-1650	BOTH	Hydrophobic Filter (Single-Zone Only)
3015-4306	BOTH	Charcoal Filter (Single-Zone only)

BACHARACH'S SAFETY & SPECIALTY FAMILY OF PRODUCTS

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Bacharach's broad experience and exceptional capabilities in the design and manufacture of gas monitors and analyzers over the years has led to the development of many special purpose products. These products often serve as tools in safety systems as well as various areas of performance test and measurement. Following are a few examples of specialty Bacharach products. The instruments included in this section are designed for the measurement of carbon monoxide, carbon dioxide and sulfur hexafloride. These units serve unique purposes with a heavy emphasis on safety. Feel free to contact Bacharach if your monitoring need is out of the ordinary.

- Residential appliances, home inspection (CO)
- Food processing, pipe leak testing, flue gas (O_2)
- Safety and indoor air quality (CO_2)
- Incubators, medical gases (CO_2)
- Horticulture, food processing (CO_2)
- Air velocity and temperature meters

Snifit®

Bacharach's affordable Snifit monitors accurately measure carbon monoxide levels in a variety of applications. Small and lightweight, yet durable for service technicians, the Snifit quickly and precisely measures CO levels from 0-1,999 ppm. With simple-button operation the monitors are easy to use and maintain.

0019-7060

- Ideal for ambient air safety checks on residential appliances, home inspection and HVAC Service
- Measures and displays Carbon Monoxide 0-1,999 ppm, 1 ppm resolution
- Small enough to fit in your pocket
- Backlight for low light conditions
- Three button operation
- Low battery indicator

SENSING TECHNOLOGY	
Electrochemical sensor (CO)	
GAS MEASURED / RANGE (RESOLUTION)	
Carbon Monoxide 0-1999 ppm (in 1 ppm increments)	
DISPLAY	
Four-digit LCD display with backlight	
OPERATING TEMPERATURE	
Instrument	32°-104°F (0 - 40°C)
OTHER SPECIFICATIONS	
Power	One 9 volt battery
Battery Life	6 months with normal duty cycles
Size	5.5" H x 2.0" W x 1.57" L (14 cm H x 5 cm W x 4 cm L)
Weight	8 oz (0.23kg) with battery
Warranty	1 Year

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Monoxor® III / Oxor® III

Single gas monitors for Carbon Monoxide or Oxygen. Ideal for indoor air quality or food processing. These hand-held battery-operated monitors are versatile and easy to use. Each unit comes with a stainless steel probe assembly for remote sensing.

- Easy and affordable
- Full 4 digit display
- 18 hour battery life
- Low battery symbol indicator

Monoxor® III:

- Measures CO levels between 0 and 2,000 ppm in ambient air and stack gasses
- Includes 4 AA batteries, probe and hose assembly, carrying strap, instruction manual and hard carrying case
- Monoxor® III Kit includes 8 AA batteries, probe and hose assembly, carrying strap, instruction manual, hard carrying case and IrDA printer

Oxor® III:

- Measures and displays O_2 levels between 0 and 20.9%
- Includes 4 AA batteries, probe, hose assembly and hard carrying case
- Oxor® III Kit includes 8 AA batteries, probe and hose assembly, carrying strap, instruction manual, hard carrying case and IrDA printer

Monoxor® III Specifications

SENSING TECHNOLOGY	
	Electrochemical sensor
GASES MEASURED / RANGE (RESOLUTION)	
Carbon Monoxide	0-2000 ppm (in 1 ppm increments)
WARM-UP TIME	
	10 or 60 seconds (depending on CO channel zero setup)
DISPLAY	
	Four-digit LCD display with backlight
OPERATING TEMPERATURE	
Instrument	32°-104°F (0 - 40°C)
Probe	1000°F (535°C) at 5" insertion
OTHER SPECIFICATIONS	
Power	Four 'AA' alkaline batteries (included)
Battery Life	Up to 18 hours continuous operation
Size	7.5" H x 3.1" W x 2.1" L (19cm H x 7.9cm W x 5.3cm L)
Weight	16 oz (0.45kg) with batteries
Warranty	2 years, including sensor

ORDERING INFORMATION	
0019-8104	Monoxor® III CO Monitor
0019-8105	Monoxor® III CO Kit
OPTIONAL ACCESSORIES	
0024-1254	Universal AC Power Adapter
0024-1400	IrDA Printer w/ Disposable Batteries
0024-1229	IrDA Printer w/ Rechargeable Batteries
0024-1310	Printer Paper (5 rolls)
0007-1644	Filter Element for Water Trap (pkg of 3)

Oxor® III Specifications

SENSING TECHNOLOGY	
	Electrochemical sensor
GASES MEASURED / RANGE (RESOLUTION)	
Oxygen	0 - 20.9% (in 0.1% increments)
WARM-UP TIME	
	90% of final value in 30 seconds
DISPLAY	
	Four-digit LCD display with backlight
OPERATING TEMPERATURE	
Instrument	32°-104°F (0 - 40°C)
Probe	1000°F (535°C) at 5" insertion
OTHER SPECIFICATIONS	
Power	Four 'AA' alkaline batteries (included)
Battery Life	Up to 18 hours continuous operation
Size	7.5" H x 3.1" W x 2.1" L (19cm H x 7.9cm W x 5.3cm L)
Weight	16 oz (0.45kg) with batteries
Warranty	2 years - instrument; 1 year - sensor

ORDERING INFORMATION	
0019-8112	Oxor® III Oxygen Monitor
0019-8113	Oxor® III Oxygen Kit
OPTIONAL ACCESSORIES	
0024-1254	Universal AC Power Adapter
0024-1400	IrDA Printer w/Disposable Batteries
0024-1229	IrDA Printer w/ Rechargeable Batteries
0024-1310	Printer Paper (5 rolls)
0007-1644	Filter Element for Water Trap (pkg of 3)
0011-0121	Wool Saturator for Probe Tube (pkg of 10)

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IEQ Chek™ Indoor Environmental Quality Monitor

IEQ Chek™ is a versatile multi-sensor instrument for measuring, monitoring and recording indoor environments for air quality diagnosis. With its 7-sensor capacity, the new IEQ Chek™ measures temperature, relative humidity, and up to 5 additional plug-and-play 'smart' sensors, including carbon dioxide (CO_2), carbon monoxide (CO), oxygen (O_2), formaldehyde (HCHO), total volatile organic compounds (TVOCs), nitrogen dioxide (NO_2), sulfur dioxide (SO_2), ammonia (NH_3), hydrogen sulfide (H_2S) and combustible gases. Large multi-line backlit LCD display with simultaneous viewing of all installed sensors, battery life, pump indicator and calibration status.

- Versatile handheld instrument with flexible 7-sensor capacity
- Ideal for indoor environmental quality measurements
- On-board sensors for temperature and relative humidity; add up to 5 additional plug-and-play 'smart' sensors - available with on-board pump for sampling air
- Stores over one million data points with SD flash card

Comfort Chek™ 500 Portable Air Quality Monitor

Comfort Chek™ 500 is an affordable, easy to use indoor air quality (IAQ) monitor designed with three sensors that simultaneously measure and record temperature, relative humidity, and carbon dioxide (CO_2) levels in the air. It can collect up to 26,000 data points and store them in its internal flash memory. The large, backlit LCD displays all three sensor readings as well as battery status and provides easy readability in dark environments. Powered by alkaline batteries or with supplied wall adapter.

- Automatically calculates and displays MIN,MAX, STEL and TWA values for CO_2
- Quick and easy calibration for CO_2 and RH
- Offers around the clock air quality monitoring in office environments or public facilities

Comfort Chek™ 500 Specifications

GASES DETECTED	
	Carbon Dioxide
DETECTION PRINCIPLE	
	Non-Dispersive Infrared (NDIR)
OTHER MEASUREMENTS	
Temperature	14° F to 140° F (-10° C to 60° C) 0.1° Resolution
Relative Humidity	0-99.9% Non Condensing / 0.1% Resolution
Range Resolution	CO_2 = 0-5,000 ppm / 1 ppm increments
Accuracy	CO_2 = ±30 ppm ±5% of reading
OPERATING RANGES	
Temperature	32° F to 122° F (0° C to 50° C)
Humidity	0-95% RH Non-Condensing
MECHANICAL SPECIFICATIONS	
Warm Up Time	30 seconds
Power	4 AA Alkaline Batteries - disposable only (included) 9 VDC 110 VAC Wall Adapter (N.Am. Plug) (included for power only - not for charging)
Size	6.6" x 2.75" x 1.25" (17 cm x 7 cm x 3.2 cm)
Weight	7.1 oz. (200 g) including batteries
Certifications	CE Mark
Warranty	2 years on instrument and CO_2 sensor

ORDERING INFORMATION

1580-8000	Comfort Chek™ 500 Kit (instrument comes with batteries, wall adapter (N.Am. plug), IQ Chek™ software and cable, user manual and hard carrying case)
1509-0007	Replacement Wall Adapter

IEQ Chek™ Specifications

GASES DETECTED	
	See product description above
DETECTION PRINCIPLE	
	Non-Dispersive Infrared (NDIR), Electrochemical, Photoionization Detector (PID)
OTHER MEASUREMENTS	
Temperature	23° F to 131° F (-5° C to 55° C) / 0.1° Resolution
Relative Humidity	0-99.9% Non-Condensing / 0.1% Resolution
MECHANICAL SPECIFICATIONS	
Power	3 AA NiMH Rechargeable or Alkaline Batteries 6 VDC Power Adapter (N. Am. or Int'l.)
Size	7.75" x 3.87" x 3.06" (19.7 cm x 9.8 cm x 7.8 cm)
Weight	20 oz. (567 g) including batteries
Certifications	CE Mark, EN 61010-1:2001, EM/RFI EN 50270:2006
Warranty	2 years on instrument, 1 year on CO_2 sensor

ORDERING INFORMATION

1510-1003	IEQ Chek™ CO_2 (0-5,000 ppm), CO, Diffusion, Temp, RH
1510-1302	IEQ Chek™ CO_2 (0-5,000 ppm), CO, NO_2, Pump, Temp, RH
1520-0001	IEQ Chek™ CO_2 (0-10,000 ppm), Diffusion, Temp, RH
1520-1002	IEQ Chek™ CO_2 (0-10,000 ppm), CO, Pump, Temp, RH
1540-0009	IEQ Chek™ CO_2 (0-20% vol), Pump, Remote Sample Probes for Temp, RH and installed "Smart" sensors
1540-2009	IEQ Chek™ CO_2 (0-20% vol), O2, Pump, Remote Sample Probes for Temp, RH and installed "Smart" sensors
1509-0001	IQ Chek™ DataLogging Option (Includes 2GB flash card, cable, software & SD card reader)
1509-0003	Remote Sample Probe IEQ Chek™ 'Smart' Sensor readings (Not including Temp. & RH)

For all sensor configurations, call the factory or go to: www.mybacharach.com/ieq-chek.htm

Portable Area Gas Monitor

Bacharach's Portable Area Gas Monitor is an advanced instrument using non-dispersive infrared (IR) technology which provides superior stability and repeatability. The unit can provide readings in either parts per million (ppm) or elapsed time weighted average (TWA) with a resolution down to 1 ppm. The internal pump and self-contained purge-air bag provides a constant zero enabling the monitor to be used in contaminated environments without affecting the readings of the target gas. Additional features include datalogging of up to 200 readings, and a leak check mode with audible and visual alarms.

- This area gas monitor ultizes infrared technology for detection and measurement of gases including SF_6, N_2O, and refrigerants
- Seeks out low-level leaks with display and alarm
- Download and print capabilities
- Applications include refrigerant gas detection, safe entry, and medical monitoring
- Two year warranty
- Instrument comes with battery pack, charger and soft case

SENSING TECHNOLOGY	
	Non-Dispersive Infrared (NDIR)
GASES DETECTED	
Refrigerants	CFC, HFC, and HCFC unit: R-11, R-12, R-21, R-22, R-23, R-113, R-114, R-123, R-124, R-125, R-134a, R-227, R-236FA, R-245FA, R-401A, R-402A, R-402B, R-404A, R-407A, R-407C, R-408A, R-409A, R-410A, R-422A, R-422D, R-424A, R-426A, R-427A, R-500, R-502, R-503, R-507, R-508B, FA188, FC72, H-1211, H-1234YF, H-1301, H-2402, HFP, N-1230
Sulfur Hexafloride (SF_6)	
Nitrous Oxide (N_2O)	
MEASUREMENT RANGE/ RESOLUTION	
All Gases	0-1000 ppm in 1 ppm increments
RESPONSE TIME	
	90% of response within 5 seconds; 100% in 7 seconds
WARM UP TIME	
	15 minutes
OTHER SPECIFICATIONS	
Internal Pump	1 lpm typical
Power	Li-Ion rechargeable battery with battery life indicator
Operating Temperature Range	32 to 122°F (0 to 50°C)
Storage Temperature Range	–4 to 122°F (–20 to 50°C)
Operating Humidity Range	5 to 90% RH, non condensing
Size	8"D x 19"W x 5"H (20.3 cm x 48.3 cm x 12.7 cm)
Weight	6 lbs. 12oz (3.07 kg)
Leak Check Mode w/ Probe (+3 ft tubing)	Internal audible alarm, programmable Visual alarm indicator
Warranty	2 Years (excluding contamination)

ORDERING INFORMATION	
3015-4484	Refrigerant Gases
3015-4790	Nitrous Oxide (N_2O)
3015-5148	Sulfur Hexafloride (SF_6)*

*Special Order Only

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IAQ Tools

Sling Psychrometer

The Sling Psychrometer accurately determines percent relative humidity without the necessity of consulting complex tables. The Sling Psychrometer contains a slide rule calculator which correlates wet and dry bulb thermometer indications for direct reading of relative humidity.

0012-7012	• +25°F to +120°F Red Spirit Filled
0012-7043	• -5° to +50°C Red Spirit Filled
0012-0266	• Thermometer (+25°F + 120°F Red Spirit Filled)
0012-0327	• Thermometer (-5° to +50°C Red Spirit Filled)
0012-0011	• Wick Replacement Kit - contains 4 wicks
0006-5456	• Cap

Floret®

The Floret® is an ideal pocket size air flow indicator for applications where readability to 50 ft/min is adequate. The Floret® is a handy instrument that can be used for checking air flow through openings as small as 1/4" in diameter.

0016-7009 • Floret® Model, 0-1,000 FPM

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Anemometer Model TH4200

2042-0000

- 0-8,800 FPM
- Coiled Cable Vane Head
- Temperature: 32°F – 140°F (0°C – 60°C)
- Data hold and low battery indication
- Sensitive for low/high air velocity
- Also displays in Km/hr, Knots, M/S
- Includes soft carrying case and battery

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Safety & Specialty Products	Sniffit®	Monoxor® III	Oxor® III	IEQ Chek™	Comfort Chek™ 500
WHAT THEY DO					
Measure Indoor Air Quality	✔	✔	✔	✔	✔
Function as a Personal Protection Device	✔			✔	
Function as a Test Instrument		✔	✔	✔	✔
WHAT THEY MEASURE					
Carbon Monoxide (CO)	0-1,999 PPM	0-2,000 PPM		0-50 PPM	
Carbon Dioxide (CO_2)				0-5,000 PPM 0-10,000 PPM 0-5% VOL 0-20% VOL 0-100% VOL	0-5,000 PPM
Oxygen (O_2)			0-20.9%	0-25% VOL	
Formaldehyde (HCHO)				0-10 PPM	0-5,000
Total Volatile Organic Compounds (TVOCs)				0-300 PPM 0-50 PPM	
Nitrogen Dioxide (NO_2)				0-5 PPM	
Nitric Oxide (NO)				0-100 PPM	
Nitrous Oxide (N_2O)					
Sulfur Dioxide (SO_2)				0-20 PPM	
Ammonia (NH_3)				0-50 PPM	
Hydrogen Sulfide (H_2S)				0-50 PPM	
Combustible Gases				0-100% LEL	
Temperature				23°-131°F	14°-140°F
Relative Humidity				0-99.9%	0-99.9%
MEASUREMENT CHARACTERISTICS					
Response Time (Seconds to 90%)	<30	<40	<40	<40	30
Warm Up Time (Seconds)	30	10 or 60	60	240	30
WHAT THEY FEATURE					
Digital Readout of Measurement	Backlit	Backlit	Backlit	Backlit	Backlit
Visual Alarm				✔	✔
Audible Alarm				✔	✔
Datalogging				✔	✔
Printer Port		IrDA	IrDA	USB	USB
Power Source	9V Alkaline	4 AA Alkaline	4 AA Alkaline	3 AA NiMH Rechargeable	4 AA Alkaline
Warranty	1-Year	2-Years	2-Years	2-Years	2-Years
CERTIFICATIONS					
CE-MARK	✔	✔	✔	✔	✔
EN 61010-1:2001				✔	
EM / RFI EN 50270:2006				✔	

Accessories & Replacement Parts

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REPLACEMENT SENSORS

0024-1467	B-Smart® Carbon Monoxide Sensor for Fyrite® INSIGHT®
0024-1541	B-Smart® Carbon Monoxide (CO) Sensor Med. for Fyrite® PCA®3
0024-1542	B-Smart® Carbon Monoxide (CO) Sensor High for Fyrite® PCA®3
0024-1543	B-Smart® Sulfur Dioxide (SO_2) Sensor for Fyrite® PCA®3
0024-1544	B-Smart® Nitrogen Dioxide (NO_2) Sensor for Fyrite® PCA®3
0024-1545	B-Smart® Nitric Oxide (NO) Sensor for Fyrite® PCA®3
0019-7061	Carbon Monoxide (CO) Sensor for Snifit®
0024-7265	Carbon Monoxide (CO) Sensor for Fyrite® INSIGHT®/Tech/Monoxor®III/Pro
0024-0997	Carbon Monoxide (CO) Sensor (High) for Fyrite® ECA 450/PCA®3/PCA®2
0024-0789	Carbon Monoxide (CO) Sensor (Low) for Fyrite® ECA 450/PCA®3/PCA®2
0024-1055	Combustible Sensor for Fyrite® ECA
0024-0881	Nitric Oxide (NO) Sensor for Fyrite® ECA/PCA®3/PCA®2
0024-1027	Nitrogen Dioxide (NO_2) Sensor for Fyrite® ECA/PCA®3/PCA®2
0024-0788	Oxygen (O_2) Sensor for Fyrite® ECA/PCA®3/PCA®2/INSIGHT®/PCA®
0024-8106	Oxygen (O_2) Sensor for Fyrite® Tech & Oxor®III/Pro
0024-0998	Sulfur Dioxide Sensor, SO_2 for Fyrite® ECA/PCA®3/PCA®2
0019-0499	Combustible Sensor for Informant® 2
0019-0575	Combustible Sensor for Leakator® Jr.
0019-0510	Refrigerant Sensor for Informant® 2
0019-0559	Refrigerant Sensor for Tru Pointe®
3015-0486	Refrigerant Sensor for H-10G & H-10PM
0019-0398	Sensor and Resistor for Leakator® 10

ACCESSORIES

0024-1124	20' Hose Extensions (w/Sample, Draft & Thermocouple Lines) for ECA 450/PCA®3/PCA®2/PCA®
3015-0119	Universal 120-240 VAC battery charger for H-10PM
3015-0147	AC Adapter (240V) for H-10G
0024-1254	AC Power Adapter (universal) for Fyrite® INSIGHT/Monoxor®III & Oxor® III/Pro
0024-1404	AC Power Adapter (universal) Fyrite® PCA®3/PCA®2
3015-3076	Audio - Visual Alarm 120 VAC for HGM-MZ & HGM-SZ
3015-0103	Battery for H10PM
0019-0397	Carrying Case for Leakator ®10
0019-0501	Carrying Case for Tru Pointe®
0024-7224	Compact Sample Conditioner/Probe Assembly for Fyrite® ECA 450/PCA®3/PCA®2
0024-1492	Fyrite® Recording Kit (Printer, CD and USB Cable) for Fyrite® INSIGHT®
0024-1470	Fyrite® User Software CD for Fyrite® ECA 450/PCA®3/PCA®2/INSIGHT®
0024-1491	Fyrite® User Software Kit (CD and USB Cable) for Fyrite® ECA 450/PCA®3/PCA®2/INSIGHT®
0024-0865	Hard Carrying Case for Fyrite® PCA®3/PCA®2/INSIGHT®/Tech/Monoxor®III/Oxor® III
0024-8214	Pressure Accessory Kit for Fyrite® ECA 450/PCA®3/PCA®2/INSIGHT®
0019-3037	Probe Stop - Universal for Fyrite® ECA 450/PCA®3/PCA®2/INSIGHT®
0024-1127	Protective Rubber Boot with Magnet for Fyrite® Tech/Pro/Monoxor®III/Oxor® III
0024-1409	Protective Rubber Boot with Magnet for Fyrite® PCA®3/PCA®2
0104-4027	Serial Cable for ECA 450
0024-1267	Soft Carrying Case for Fyrite® Tech
0104-1798	Thermocouple, 1' (for Ambient Air Temperature)
0104-1797	Thermocouple, 10' (for Primary Air)

0104-4032	USB Cable for Fyrite® PCA®3/PCA®2/INSIGHT®
0019-0553	Probe Assembly for Tru Pointe®
0019-3091	Probe Assembly for Leakator® 10
0019-0497	Protective Rubber Boot for Informant® 2
0024-8414	Thermocouple Kit, 12 inch for Fyrite® ECA 450/PCA®3/PCA®2/INSIGHT®

REPLACEMENT PARTS: FILTERS

3015-5199	Annual Maintenance Kit (1 internal Filter,1Charcoal Filter) for HGM-MZ
3015-4306	Charcoal Filter for HGM-SZ
3015-3125	Charcoal Filter with Fittings for HGM-MZ
0007-1654	Desiccant Filter for Portable Area Monitor
0007-1650	Hydrophobic Filter for HGM-MZ & HGM-SZ
3015-4415	Hydrophobic Filter for H25-IR
0007-1700	Inline Filter for Stinger®
0007-1563	Filter for Inlet of Gas Pump for Fyrite ®ECA 450/PCA®3/INSIGHT®
3015-3420	Line End Filter for HGM-MZ & HGM-SZ
0024-0987	Sensor Filter, CO (High) for Fyrite® ECA 450/PCA®3
0024-0863	Sensor Filter, CO (Low) for Fyrite® ECA 450/PCA®3
0024-0862	Sensor Filter, NO for Fyrite® ECA 450/PCA®3
0019-3265	Water Trap/Filter Assembly for Fyrite® PCA®3/INSIGHT®/Tech/Monoxor® III/Oxor® III/PCA
0024-1172	Water Trap/Filter Assembly for Fyrite ECA 450
0019-3318	Moisture Removal Kit
3015-4515	Plastic Probe Tip Filter (Package of 10) for H25-IR
3015-4516	Plastic Probe Tip Filter (Package of 50) for H25-IR
3015-4680	Water Trap for HGM-MZ
3015-5135	Metal Probe Tip Filter (Package of 50) for H25-IR
0019-0509	Filter 5 Pack for Informant® 2
0007-1598	Filter Element for Water Trap (Pkg. of 3)
0007-1644	Filter Element for Water Trap (Pkg. of 3) for Fyrite® ECA 450/PCA®3/INSIGHT®/Tech/Monoxor® III
0054-0548	Particulate Filter for Safe Entry Monitor

REPLACEMENT PARTS

3015-0326	14" Flexible Probe for H-10G & H-10PM
0019-0548	Battery Door for Tru Pointe®
0204-0020	Battery - AA Lithium
3015-0641	Clear Probe Tip for H-10G & H-10PM
0019-0507	Combustible Probe Tip Red for Informant® 2
2002-0011	Compressor Rebuilt Kit for FM3600/3700
0024-0878	Connector, Draft Female for Fyrite® ECA 450/PCA®3/INSIGHT®
0024-0877	Connector, Gas Female or Fyrite® ECA 450/PCA®3/INSIGHT®
2063-0010	High Pressure Gauge for FM3600/3700
3015-0864	Leak Reference Bottle for H-10G & H-10PM
2063-0020	Low Pressure Gauge for FM3600/3700
3015-0784	Maintenance Kit for H-10G & H-10PM
2014-0310	Pressure Switch for FM3600/3700
0024-3048	Pump Assembly for Fyrite® INSIGHT®
0024-3009	Pump Assembly for Fyrite® ECA 450

Accessories & Replacement Parts

0024-3020	Pump Assembly for Fyrite®/Tech/Monoxor® III/Oxor® III
3015-5176	Pump with Connector for HGM-MZ & HGM-SZ
3015-4552	R-134 Leak Source Replacement Kit for H25-IR
3015-4553	R-600a Leak Source Replacement Kit for H25-IR
0010-5057	Refill Fluid CO2 20 & 60 % 3 Bottles Per Carton for Fyrite® Classic
0010-5100	Refill Fluid CO2 7% 3 Bottles Per Carton for Fyrite® Classic
0010-5060	Refill Fluid O2 21 & 60 % 3 Bottles Per Carton for Fyrite® Classic
0010-5103	Refill Fluid O2 7% 3 Bottles Per Carton for Fyrite® Classic
0019-0473	Refrigerant Probe Tip Blue for Informant® 2
0024-3048	Replacement Pump for Pro
0011-7052	Repair Kit CO2 20 & 60% for Fyrite® Classic
0011-7053	Repair Kit CO2 7% for Fyrite® Classic
0011-7054	Repair Kit O2 21 & 60% for Fyrite® Classic
0019-0577	Battery Door for Leakator® Jr.
0019-0576	Replacement Sensor Cover for Leakator® Jr.
3015-0680	Rubber Probe Tip for H-10G & H-10PM
0019-7114	Smart Probe Assembly with 12ft Probe Hose for H25-IR (gray)
0019-7132	Smart Probe Assembly with 6ft Probe Hose for H25-IR (black)
3015-0638	Standard Probe for H-10G & H-10PM
2063-0160	Stinger High Pressure Gauge
2063-0150	Stinger Low Pressure Gauge
2045-0620	Stinger Round Head Compressor
2039-0490	Stinger Round Head Compressor Over Haul Kit
2039-0480	Stinger Round Head Compressor Repair Kit Piston Cup, O-Rings
2045-0181	Stinger Square Head Compressor
2090-0042	Stinger Square Head Compressor Rebuild Kit
3015-0781	Tune-Up Kit for H-10G & H-10PM

CALIBRATION GAS

0051-1994	100 ppm CO, 103 L for Fyrite® PCA®2/INSIGHT/Tech/Monoxor® III/Snifit®
0024-1157	100 ppm NO2, 58 L for Fyrite® ECA 450/PCA®2
0024-1158	100 ppm SO2, 58 L for Fyrite® ECA 450/PCA®2
0024-0794	1,000 ppm CO, 1,000 ppm H2, 103 L for Fyrite® ECA 450/PCA®2
0051-1121	2.5% CH4, 103 L for Fyrite® ECA 450
0024-1156	250 ppm NO, 58 L for Fyrite® ECA 450/PCA®2
0024-1155	4000 ppm CO, 103 L for Fyrite® ECA 450/PCA®2
0024-0492	500 ppm CO, 103 L for Fyrite® ECA 450/PCA®2/INSIGHT®/Tech/Monoxor® III
0024-7059	Calibration Kit (Less Calibration Gas)

PRINTERS

0024-1229	IRDA Printer (Includes Battery Pack Charger,1 Roll of Paper) for Fyrite® PCA®2/INSIGHT®/Tech/Portable Area Gas Monitors/Monoxor® III/Oxor ®III
0024-1400	IRDA Printer w/ Disposable Batteries
0024-0887	Printer Paper (1 Roll - HP Printer)
0024-8733	Printer Paper (1 Roll - IRDA Printer)
0024-1256	Printer Paper (5 Rolls - HP Printer)
0024-1310	Printer Paper (5 Rolls - IRDA Printer)
0024-0980	Printer Paper (5 Rolls) for Fyrite® ECA 450

Shipping Weight & Dimensions

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PRODUCT	SHIPPING WEIGHT	SHIPPING DIMENSIONS
ECA 450	30 lbs.	18" x 13" x 10"
PCA® 3, Fyrite® INSIGHT®	6.8 lbs.	17.5" x 6" x 13"
Fyrite® Tech	4 lbs.	17" x 6" x 13"
Fyrite® Duplex Kit	13 lbs.	13" x 6" x 11"
Fyrite® Fluid (1 carton of 3 bottles)	2 lbs.	10" x 5" x 4"
Fyrite® Indicator	3 lbs.	10" x 5" x 4"
Fyrite® Refill Package	2 lbs.	13" x 6" x 11"
Fyrite® Repair Package	1 lb.	13"x 6" x 11"
Fyrite® Combustion Kit	15 lbs.	18" x 6" x 16"
Draftrite® Draft Gauge	1 lb.	4" x 3" x 1"
True Spot® Smoke Tester	1 lb.	9" x 8" x 9"
Monoxor® III, Oxor® III	3 lbs.	17" x 10" x 5"
Multi Zone	16 lbs.	25" x 18" x 14"
MZF Draft Gauge	3 lbs.	7" x 5" x 9"
Snifit® 50	1 lb.	3" x 4" x 7"
Informant® 2 Kit / Tru Pointe®	3 lbs.	4" x 3" x 12"
Informant® 2 Deluxe Kit	4 lbs.	7" x 4" x 16"
Leakator® Jr.	1 lb.	13" x 8" x 5"
Leakator® 10	2 lbs.	9" x 2" x 2"
Tru Pointe® Ultra	1.5 lb.	11" x 14" x 4"
Tru Pointe® 1100	2 lbs.	16" x 18" x 6.5"
Tru Pointe® 2100	2 lbs.	16" x 18" x 6.5"
Comfort Chek™ 500	2 lbs.	15" x 9" x 3"
IEQ Chek™	3 lbs.	9" x 12" x 4"
Floret® Air Velocity Meter	1 lb.	7" x 4" x 2"
Florite® Air Velocity Meter	4 lbs.	5" x 7" x 3"
Single Zone	5 lbs.	16" x 12" x 10"
Sling Psychrometer	1 lb.	12" x 9" x 6"
Stinger	28 lbs.	18" x 13" x 18"
Recovery Unit 3600-410A, Recovery Unit 3600 R-S	39 lbs.	18" x 13" x 18"
Recovery Unit 3700	52 lbs.	18" x 13" x 18"
H25-IR	18 lbs.	18" x 15" x 15"
R22id	2 lbs.	9" x 9" x 9"
Pur-Chek™	8 lbs.	16" x 16" x 7"
Pur-Chek™ Pro	8 lbs.	16" x 16" x 7"
Dual-Channel Digital Thermometer	14 oz.	7" x 12.5" x 2"
Humidity-Temperature Meter	2 lbs.	18" x 15" x 15"
Anemometer	1 lb. 3 oz.	9" x 12.5" x 3"
H10PM, H10G	7 lbs.	12" x 10" x 8"
Tru Pointe®	3 lbs.	19" x 8" x 4"

PRODUCT	SHIPPING WEIGHT	SHIPPING DIMENSIONS
Infrared Thermometer	11 oz.	5.5" x 12.5" x 3"
Digital Pocket Thermometer	2 oz.	3.5" x 9" x 1.5"
Refrigeration Wrenches (2002-0122)	5 oz.	2" x 8" x 1"
Refrigeration Wrenches (2002-0123)	8 oz.	2.5" x 9.5" x 1"
PVC Pipe Cutter	13 oz.	5" x 10.5" x 1.5"
Valve Core Removal Tool	2 oz.	3" x 5" x 1"
Swaging Punch	1 oz.	2.5" x 9" x 1"
Pocket Dial Thermometer	1 oz.	3" x 8.5" x 1"
R-410A Manifold Set	3 lbs. 8 oz.	12.5" x 14" x 2"
R-12/22/134a Manifold Set	3 lbs. 8 oz.	12.5" x 14" x 2"
R-12/22/134a Manifold Set w/Sight Glass	3 lbs. 8 oz.	12.5" x 14" x 2"
R-410A Manifold Set w/Sight Glass	3 lbs. 8 oz.	12.5" x 14" x 2"
R-410A Hose Set	1 lb. 14 oz.	12.5" x 14" x 2"
Spring Type Tubing Benders	2 lbs. 4 oz.	5" x 18.5" x 1.5"
R-12/22/134a Ball Valve Hose Set	1 lb.	6" x 14" x 1"
3 in 1 Tubing Bender 180°	1 lb.	8" x 13" x 5"
3 in 1 Tubing Bender 90°	15 oz.	4.5" x 13" x 2.5"
7 Sizes Flaring Kit	4 lbs. 6 oz.	8.5" x 6" x 1.5"
Flaring & Cutting Kit	3 lbs. 5 oz.	13" x 5.5" x 2"
Flaring, Swaging & Cutting Kit	5 lbs. 9 oz.	13" x 10" x 2"
Tube Expander Kit	9 lbs. 1 oz.	18" x 8" x 2.5"
R410A Gauge (2002-0410)	1/2 lb.	4.5" x 6" x 1.5"
R410A Gauge (2002-0420)	1/2 lb.	4.5" x 6" x 1.5"
R12/22/134a Gauge (2002-0250)	1/2 lb.	4.5" x 6" x 1.5"
R12/22/134a Gauge (2002-0550)	1/2 lb.	4.5" x 6" x 1.5"
6 Sizes Flaring Kit	2 lbs. 1 oz.	7.5" x 9.5" x 1.5"
Heavy Flaring Kit	2 lbs. 5 oz.	9" x 8.5" x 1"
Flaring Burnishing Tool	1 lb. 15 oz.	7.5" x 9.5 x 1.5"
Tubing Cutter (2002-1858)	11 oz.	4" x 9" x 1.5"
Tubing Cutter (2002-0780)	3 oz.	4" x 5" x 1"
Tubing Cutter (2002-1878)	4 oz.	4" x 5" x 1"
Tubing Cutter (2002-1818)	4 oz.	4" x 5" x 1"
Telescopic Mirror Set	12 oz.	9" x 15.5" x 1"
Capillary Tube Cutter	3 oz.	3" x 8" x 1"
Fin Straightener	4 oz.	5" x 6" x 1"
Inner Outer Reamer (2002-6900)	8 oz.	4.5" x 6" x 2"
Inner Outer Reamer	8 oz.	4.5" x 6" x 2"
Valve Core Removal Tool	2 oz.	3" x 5" x 1"
Charging Scale	10 lbs. 10 oz.	17" x 15" x 4.5"

Customer Service

CUSTOMER SERVICE

Contact our Customer Service Department by phone, fax or e-mail. Your call will be answered by friendly, knowledgeable professionals Monday through Friday between 8 a.m. and 5 p.m. (EST). If you call during off-hours or if we are busy helping other customers, we encourage you to leave a message and we will return your call as quickly as possible. Please contact Bacharach according to your location and needs:

USA

To place orders or request a quotation:
Phone: 1-800-736-4666 (press 1 at prompt)
Fax: 724-334-5001
E-Mail: Help@MyBacharach.com

For repair or service questions or to request an RMA#:
Phone: 1-800-736-4666 (press 2 at prompt)
Fax: 724-334-5704
E-Mail: Help@MyBacharach.com

For technical inquiries:
Phone: 1-800-736-4666 (press 3 at prompt)
Fax: 724-334-5001
E-Mail: Help@MyBacharach.com

CANADA

For all inquiries:
Phone: 1-800-328-5217 (toll-free in Canada)
Fax: 905-470-8963
E-Mail: bachcan@idirect.com

OUTSIDE OF USA / CANADA

To find a local distributor:
Phone: +1-724-334-5000 (press 4 at prompt)
Fax: +1-724-334-5705
E-Mail: Help@MyBacharach.com

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REPRESENTATIVES AND DISTRIBUTORS

Bacharach has a worldwide network of partners anxious to handle your needs. Please contact Customer Service or go to www.MyBacharach.com to find a representative serving your local area.

PRICES AND TERMS

Prices are subject to change without notice. Terms of payment are Net 30 Days with established credit (FOB Factory). The minimum order requirement is $50.00 USD net. We also accept American Express, Visa, Mastercard and Discover or prepaid orders. Please see the Standard Terms and Conditions found at www.MyBacharach.com.

GOVERNMENT CUSTOMERS

Bacharach has been granted GSA Contract #GS-24F-1104B for Federal Supply Schedule 66. Product information is available in the GSA Advantage! Electronic Catalog on www.gsaadvantage.gov.

WARRANTY

Bacharach warrants all parts and components according to our standard Terms and Conditions, with provisions according to product warranties stated in the specific product Operating Instructions. Please complete the warranty registration card included with each instrument (return postage paid in USA), or complete the Warranty Registration Form found online at: www.MyBacharach.com/warranty-registration.htm.

RETURNS

All sales are considered final upon delivery by Bacharach to the initial carrier. Returns will be accepted only according to the Terms and Conditions with a Return Goods Authorization number (RGA#) issued by Bacharach.

SERVICE AND REPAIR

All service and repair of Bacharach equipment must be completed by an Authorized Service Center to uphold the Warranty. A Return Material Authorization number (RMA#) is required for all service and repair. For additional information please go to www.MyBacharach.com/support.htm or contact the Repair Department.

DESIGN CHANGES

Due to continuing improvements in design, some items may differ slightly from the description and photographs in the literature. All specifications are subject to change without notice. If you have product suggestions, please contact the Marketing Department via e-mail at Marketing@MyBacharach.com.

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